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# Clark University

## Sub-Freshman Bulletin



Published in the Interest of  
Old Friends and New Acquaintances  
Worcester . . . Massachusetts  
November, 1930

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CLARK UNIVERSITY offers at moderate expense a thorough collegiate training leading to the degree of Bachelor of Arts. The scholastic requirements for the degree are one hundred and twenty semester hours credit in addition to Physical Training, with a rank above the bottom quarter of the class in three-fifths of the work.

In a limited number of departments, work is offered leading to the degrees of Master of Arts and Doctor of Philosophy.

The presence of a proportionately large graduate student body offers inducement to undergraduates for high standards of work.

Small classes and a relatively large faculty allow close acquaintance with heads of departments.

Undergraduates are encouraged to carry as full a schedule of courses as they are able and still maintain an average in the upper half of their classes. This permits those with sufficient ability to finish the course in three years and one-half or occasionally even in three years.

An endowment above the average, given for the specific purpose of keeping the expense of an education low, allows the tuition to be held at \$200.00.

Twenty Jonas G. Clark Memorial Scholarships of \$100.00 each are available for entering freshmen who have graduated in the upper quarter of their preparatory school class. Ten similar scholarships are available for each of the three upper classes in college.



Published by the University in January, February, March, April, May, June, October, November and December.

Number 79

November, 1930

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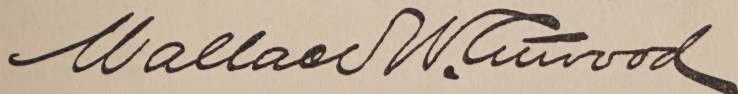
## FOREWORD

YOU, as a High School Senior, may wonder why Clark University takes the trouble to send this bulletin to you. One reason is that while the *graduate division* of Clark University has an international reputation among scholars, the *undergraduate division* ("college") is younger and less widely known. We want you to know of it and to realize how attractive its educational opportunities are for young men who wish a first class college training. Clark men today are continuing their work with distinction in the best graduate schools of the country—both business and professional—or carrying on successfully in the various vocations.

Another reason is that it is our desire to select carefully about one hundred and twenty-five Freshmen each year from a much larger number of applicants. If you are well qualified and are looking forward to a first class education at a small New England college, you will do well to investigate Clark. The opportunities for personal association with the members of the faculty and for the establishment of close friendships with a large proportion of your classmates are especially good and will remain so because under no circumstances will Clark accept a large number of students. You will need fifteen certified units for admission without condition, but two conditions will be allowed if you are in every other way qualified. Deficiencies in certified units may be redeemed by passing the College Board examinations. You will also need good personality and character recommendations for we are increasingly careful in this respect.

Finally, although jealously guarding our reputation among New England colleges for the excellence of our scholastic work, we wish our students to have the other delightful experiences which accompany life at college. The opportunities for these as offered by athletic, musical, and social activities are described in the following pages.

We hope that you will read this bulletin carefully. If thereby you gain a worthwhile educational opportunity and we gain a worthwhile alumnus, we shall be satisfied.

A large, elegant handwritten signature in dark ink, reading "Wallace W. Wood". The signature is written in a cursive style with long, sweeping strokes, particularly in the first and last names.

President

## *Officers of Administration and Instruction*

WALLACE WALTER ATWOOD, Ph.D. (Chicago)

President

Professor of Physical and Regional Geography and Director of the  
Graduate School of Geography

HOMER PAYSON LITTLE, Ph.D. (Johns Hopkins)

Dean of the College and Professor of Geology

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Professor of English Literature

LORING HOLMES DODD, Ph.D. (Yale)

Professor of Rhetoric

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G. Stanley Hall Professor of Genetic Psychology

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DOUGLAS CLAY RIDGLEY, Ph.D. (Clark)

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JOHN PAUL NAFE, Ph.D. (Cornell)

Professor of Experimental Psychology

CLARENCE FIELDEN JONES, Ph.D. (Chicago)

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CAREY EYSTER MELVILLE, A.B. (Northwestern)

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VERNON A. JONES, Ph.D. (Columbia Teachers')

Associate Professor of Educational Psychology

\*JAMES ACKLEY MAXWELL, Ph.D. (Harvard)

Associate Professor of Economics

ARTHUR FLETCHER LUCAS, Ph.D. (Princeton)

Associate Professor of Economics

DWIGHT E. LEE, Ph.D. (Rochester)

Associate Professor of Modern European History

NORMAN EDWIN HIMES, A.M. (Harvard)

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JESSE LUNT BULLOCK, A.M. (Harvard)

Assistant Professor of Chemistry

DAVID POTTER, M.Sc. (Mass. Agri. College)

Assistant Professor of Biology

GEORGE ELISHA BAKER, A.M. (Harvard)

Assistant Professor of English

PERCY M. ROOPE, Ph.D. (Clark)

Assistant Professor of Physics

HEINRICH BOSSHARD, Ph.D. (Zurich)

Assistant Professor of German

PAUL W. SHANKWEILER, A.M. (Columbia)

Assistant Professor of Sociology

EDWARD D. F. POUSLAND, E.T. (Paris)

Assistant Professor of Romance Languages

RICHARD GUNDRY POINDEXTER, M.A. (Harvard)

Instructor in Physics

CHARLES MARC POMERAT

Assistant in Biology

GUY HARVEY BURNHAM, A.M. (Clark)

Cartographer, Graduate School of Geography

ERNEST RAYMOND WHITMAN

Director of Physical Education

RALPH WARNER ELLIS, M.D. (Harvard)

Medical Director

DEAN WINSLOW HANSCOM, A.B. (Harvard)

Director of Glee Club

\*Absent on leave, 1930-31.





LIBRARY DOORWAY

### *Location*

**C**LARK UNIVERSITY is situated in Worcester, Massachusetts, a city of some 200,000 inhabitants, 45 miles from Boston. Worcester has long been one of the educational centers of New England, being the seat of Holy Cross College, Worcester Polytechnic Institute, Assumption College, Worcester State Normal School, and Worcester Academy. The Worcester Art Gallery, with its large endowment, is one of the notable galleries of the country. The churches of the city number over 100, and give full opportunity for worship according to individual preference. The Y. M. C. A. building, within easy walking distance of the University, is modern and well equipped. Besides the usual apparatus, it contains one of the largest swimming pools east of the Mississippi. The situation of the city is such that opportunities in drama and in music are offered superior to those available in most cities of similar size.

## *Historical*

Clark University owes its existence to the generosity of Jonas Gilman Clark, who gave funds for its establishment during his life and bequeathed it his fortune at his death. Students were first received in 1889. For the first thirteen years the University was exclusively a graduate school and, under the leadership of President G. Stanley Hall, an able staff of instructors sent out from the University a steady stream of scholarly men who have given the institution a prominence disproportionate to its size in the fields of Biology, Chemistry, Education, Mathematics, Physics, and Psychology. Under the provisions of Mr. Clark's will Clark College was established in 1902. At first the University and the College occupied the same grounds and buildings but had separate presidents and faculties. In 1921-1922 plans for their unification were perfected, and they became the Graduate and Undergraduate Divisions of Clark University. The latter, however, is still ordinarily referred to as Clark College.

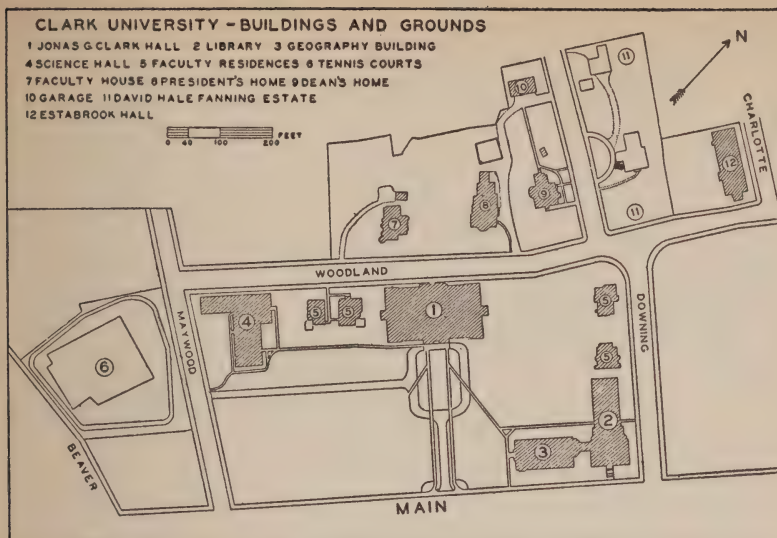
## *The Campus*

The campus consists of a plot of about seven acres, a mile southwest of the business center of Worcester. The offices of administration are in Jonas G. Clark Hall.

Estabrook Hall, the freshman dormitory, is only a few minutes walk from the campus. It accommodates fifty-one students. It is thoroughly up-to-date, heated by steam, well equipped with shower baths, and has light, airy corridors. The building is cared for by a man and wife of excellent personality who reside in it. The ground floor is occupied by the Dining Hall.

The University has recently developed as an athletic field a plot of about seven acres and equipped it with bleachers and a field house. There is, in addition, the old athletic field, an acre or more in extent, immediately adjoining the campus, with tennis courts, outdoor basketball court, a six lap running track and space for field events.





PLAN OF CAMPUS

### *Endowment, Laboratories, Library, and Faculty*

Clark University is a small institution with a total enrollment of approximately 350 full time students, but in contrast to many small institutions has a relatively large endowment—nearly five million dollars—with an additional million in its plant. This money is invested in the three things which make any institution outstanding—its faculty, its laboratories, and its library. These are the features about which an estimate of Clark should center.

Money has been generously spent in the equipment of research laboratories and the undergraduate student receives much advantage from their presence. The Chemical Laboratory unquestionably has an equipment superior to that of many colleges twice the size of Clark and the Psychological Laboratory is one of the finest in the country. The science of Meteorology, so useful in connection with modern aviation, is stressed at Clark and is attracting an increasing number of students.



LIBRARY AND GEOGRAPHY BUILDING

The Library deserves special mention. Clark is almost uniquely fortunate in this prerequisite for real university and college life for approximately a million dollars is available for the exclusive use of the Library. A permanent staff of seven besides student assistants is employed and the building is open for study from 8 a. m. to 10 p. m. each week day. Over one hundred thousand bound volumes and pamphlets are on the shelves and over five hundred journals are regularly received. About four thousand books are added each year. Each member of the University has direct access to every book and journal.

The Faculty, forty in number, is in an unusually large ratio to the student enrollment. The high degree of its professional training may be judged by an examination of its personnel, page 2. With its limited numbers Clark offers to every student an unusual opportunity for personal association with the



Head of each Department in which he is working. *Moreover, with a faculty of this size, Clark is able to do much of its work in small classes, an ideal universally sought for but rarely realized.* These features may perhaps be justly regarded as the most important educational advantages of a course at Clark.

### *Courses of Study*

In the Undergraduate School the range of courses is similar to that offered in any first class college. Instruction is given in the following thirteen departments:

#### A. Division of Science

I Mathematics, II Physics, III Chemistry, IV Biology,  
V Geology

#### B. Division of Social Science and Psychology

VI History and International Relations, VII Economics  
and Sociology, VIII Psychology and Education  
IX Geography (including Meteorology)

#### C. Division of Languages and Literature

X English, XI German, XII Romance Languages,  
XIII Ancient Languages

The freshman program is largely fixed as it must include English, a Foreign Language, a course in the Division of Social Science and Psychology, and either Biology, Chemistry, Physics, or Mathematics.\*

At the end of the freshman year a student is expected to indicate in which department he intends to *major* and to select a *minor* in a closely related field. Too early specialization is prevented by required work in English, Foreign Languages, Laboratory Science, and Social Science and Psychology. These requirements, however, may be largely completed by the end of the sophomore year, *leaving much of the last two years free for study in fields of special interest.*

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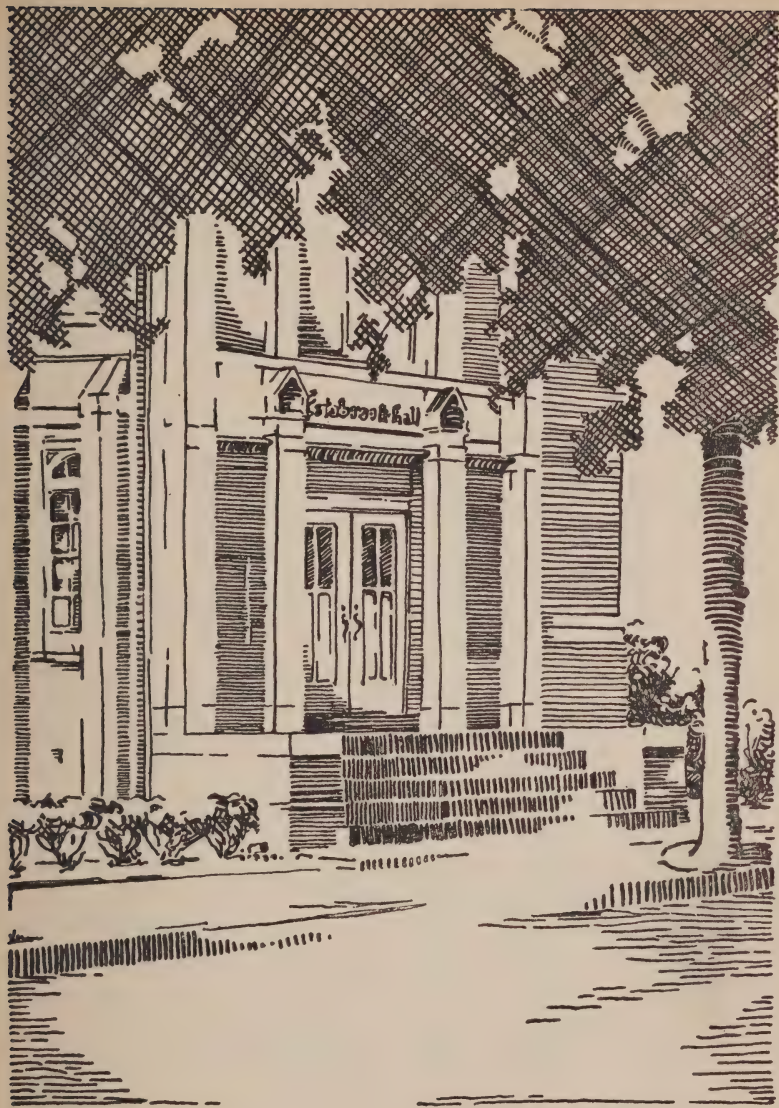
\*A semester course in the Fine Arts must be elected in either Freshman or Sophomore year.

Clark desires the superior student to do independent work as early as possible and to this end those who average in the upper quarter of their classes are allowed during the junior and senior years to do independent work, not to exceed three hours each semester, under special supervision and without the requirements of regular classroom work. In this manner the transition to the graduate attitude of mind is easily made. This, together with the fact that an undergraduate whose scholastic record is good may continue his training at small cost, leads many Clark men into graduate study.

In addition to the usual courses leading to the degree of Bachelor of Arts, Clark offers graduate work leading to the degree of Master of Arts in Chemistry, and Physics, and to the degree of Doctor of Philosophy in Economics and Sociology, Geography, History and International Relations, and Psychology and Education. No attempt is made to rival the large universities in the range of fields covered, but rather to do excellent work in a few departments. The Graduate School of Geography is performing a service unique in this part of the United States. The Summer School offers courses leading to the degree of Bachelor of Education, emphasizing particularly work in Economics, Geography, and History.

### *Admission*

The normal requirements for admission to the Undergraduate Division of Clark University are first, graduation from a high school of good standing; second, *presentation of fifteen units of certified work*; third, evidence of good moral character. Students who present thirteen or fourteen certified units may be admitted on condition. Conditions may be removed on evidence of ability to do satisfactory college work. Those who cannot present thirteen certified units for admission may obtain the required additional units by passing the examinations of the College Entrance Examination Board. Information concerning the Board may be obtained by addressing 431 West 117 St., New York City. Applications and fees must be forwarded to



ENTRANCE TO ESTABROOK HALL, THE FRESHMAN DORMITORY



the Board by about the middle of May. By special consent the September examinations furnished to the college by the Board may be taken in Worcester. The University stands ready to consider on their merits the cases of more mature individuals whose education has been irregular or delayed through reasons beyond their control. Women are admitted to the graduate division and to advanced undergraduate courses in some departments.

*Clark is a member of the New England College Entrance Certificate Board and all New England principals certifying to Clark assume responsibility to that Board.*

### *Graduation*

To obtain the degree of Bachelor of Arts a student is required to complete satisfactorily a total of 120 semester hours, exclusive of Physical Training; that is, the equivalent of five three-hour courses each semester for four years. *No student's work is regarded as satisfactory and entitling him to graduation unless he ranks above the lowest quarter of those passing in at least three-fifths of his courses.*

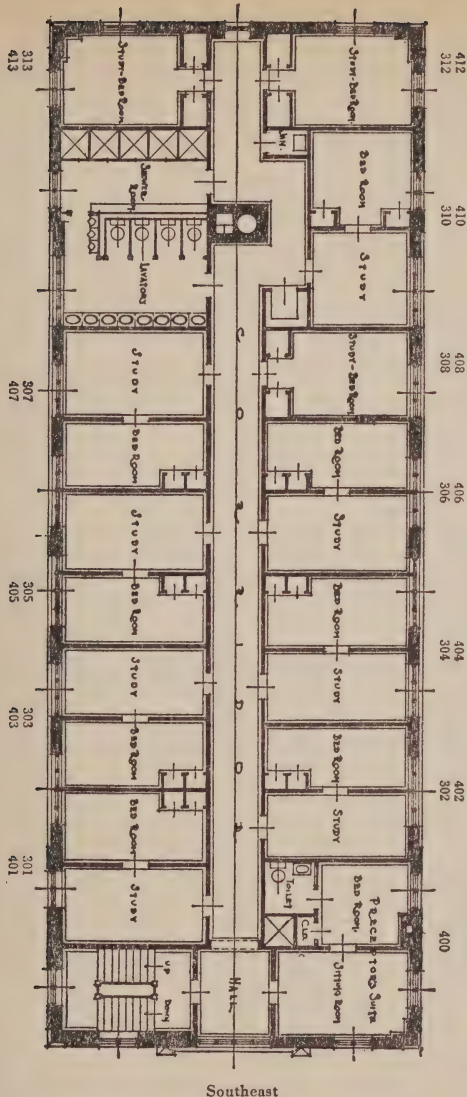
Students of ability are encouraged to finish the course in the shortest time consistent with good scholastic accomplishment. In furtherance of this a freshman is allowed to elect six courses on entrance and to continue with six as long as he averages in the upper half of his courses. He may indeed petition to carry additional work. No one, however, is permitted to complete his college course in less than three years. A system of credit bonuses encourages high grade work.

It is only fair to say that the average student finds five courses amply sufficient, particularly if he is interested in any extra-curriculum activity.

### *Tuition, Room, and Board*

The expense of tuition at Clark is kept at the relatively low figure of \$100.00 a semester, including \$10.00 for the support of various student activities. The cost to the University per

Northwest



Southeast

### THIRD FLOOR PLAN

Scale 1" = 10' Feet

### ESTABROOK HALL

The rooms on the fourth floor are arranged like those on the third except that the rooms over the preceptor's suite have no individual bath. Woodland Street extends along the southeast side of the building and Charlotte Street along the northeast side.

student, graduate and undergraduate together, is about \$750.00 a year. Tuition is kept so low because of the express desire of the founder that his generous endowment should be so used as to make an excellent college education available, so far as possible, to all deserving young men. At the request of the students and by direction of the Trustees, the Bursar collects \$5.00 additional each semester for the further support of student activities.

Other expenses are a \$5.00 matriculation fee and laboratory fees of \$5.00 a semester for science courses. The cost of books will approximate \$20.00 a year.

Undergraduates from out-of-town must board at Estabrook Hall and freshmen from out-of-town must room there. Board is \$7.50\* per week and room rent \$115.00 to \$150.00 per year for each occupant. The higher price is for a share of a two-room suite; the lower for a share of a single room. The rooms are furnished with a desk, chair, chiffonier, cot, mattress and pillow for each occupant. A deposit of \$25.00 is required as security against possible damage and to cover the cost of lighting. Students wishing to room together should so state, each making his own deposit. Rooms are reserved in order of application when accompanied by the deposit. The sketch on the preceding page shows the arrangement of the rooms.

### *Scholarships, Student Aid, and Self-Help*

No attempt will be made here to describe the fellowships and scholarships open to graduate students. Information concerning them may be obtained from the Registrar.

For undergraduates fifty Jonas G. Clark Memorial Scholarships are available for students of high academic standing, each yielding \$100.00. Twenty of these are awarded, on application, to entering freshmen who averaged in the upper quarter of their class for their preparatory school course. Of the freshman scholarships, eight are reserved for candidates from the

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\*May be raised to \$8.00 at any time.



Worcester High Schools and will be awarded preferably two to each of the four schools. These scholarships will generally be awarded early in August and applications must be received prior to that time to ensure consideration. For each of the three upper classes ten scholarships are reserved which may be granted to anyone averaging in the upper quarter of his class the preceding year.

Sufficient loan funds are available to allow the continuance in college of deserving students. Spare time employment can usually be found in the city. In view, however, of the time required for the regular work of the College, only the exceptional student should expect to earn more than a limited part of his expenses, and as a general rule at least \$500.00 should be at the disposal of any man beginning a college course, provided he cannot live at home.



JONAS G. CLARK HALL  
Main Recitation Building



JONAS G. CLARK HALL FROM UNIVERSITY POND  
This pond is one of the City Parks

### *College Life Outside the Classroom*

Although Clark stands uncompromisingly for the idea that the intellectual life of the institution as developed by reading, study, and in the classroom is the prime object of college and must at all cost be put first, it is believed that by proper planning of his time a student may find abundant opportunity for a reasonable amount of extra-curriculum activity as well; therefore such recreations are encouraged. There are monthly "Bohemians" in the Jonas Clark Hall, and two formal "Proms." The College supports a Glee Club and Orchestra, trained by a professional Musical Director, and a very successful Dramatic Association coached by a member of the English Department who takes especial interest in this type of activity. Debating has for a long time been notably successful at Clark, and was for a number of years the only type of intercollegiate activity in which the students engaged. The students publish the *Clark Quarterly*, a magazine which gives opportunity for the publication of their literary productions and serves also as

a forum for the expression of college opinion. A weekly newspaper, *The Clark News*, is now in its fifth year. There are four local and two national Greek letter fraternities, besides several special fraternities and organizations.

Admission to all plays is free to undergraduates, and each receives in addition free subscription to the *Quarterly* and the *News*.

Clark has participated in intercollegiate athletics since 1919 and has been particularly successful in basketball. Rugby football is not played, but rapid advance has been made in soccer under competent coaching and the same is true of baseball. The new athletic field, already referred to, has added greatly to the pleasure of both contestants and spectators.



#### THE ANNUAL FRESHMAN-SOPHOMORE ROPE PULL

The opposing team of 25 men is on the other side of the pond, enjoying (?) the view shown on the opposite page. The losers will all follow the rope through the pond.





#### A BIT OF THE NEW ATHLETIC FIELD

Over seven acres in extent, with excellent soccer and baseball fields. The field was purchased in 1924. The field house was completed last summer. Recent graduating classes have given a score board and flag pole as their class gifts.

Words by  
E. Leonard '23

# SONS of CLARK

Music by  
Chas. Metcalf '22  
Arr by D.W.H.

Ten 1

Ten 2

1. Down in New Eng---land Down in old Wor-ces-ter town,  
2. We love her Cam-----pus We love her vine clad walls.

Melody Bass 1

Bass 2

Where songs of com-rades gay All sor-rows drown-  
We love each hap-py hour spent in her halls

Down where sweet breez-es blow Where flow'rs of friend-ship grow,  
How deep that love can flow How sweet those mem'ries grow;

There's where I long to go There I'll find Clark  
No one can ever----know, Save sons of Clark

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FOR FURTHER INFORMATION  
ADDRESS

*The Dean, Clark University  
Worcester, Massachusetts*

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# Clark University Bulletin

WORCESTER, MASS.

*Published by the University in January, February, March, April, May  
June, October, November, and December*

NUMBER 80

PRICE 25 CENTS A YEAR

DECEMBER, 1930

## ALUMNI NUMBER

### ANNOUNCEMENTS CONCERNING THE UNIVERSITY, ALUMNI, AND *The Twentieth Annual Clark Night*

Clark Night, as for several years past, will be part of Founder's Day Celebration. The festivities begin at 7:00 p. m. **Tuesday**, February 2, with dinner at Estabrook Hall. The glee club will give a dinner concert, the alumni will present a "stunt," and the seniors will be received as prospective alumni. After the dinner President Wallace W. Atwood will welcome the alumni. The Glee Club will introduce the Prize Clark Song as a special feature of the program, and the prize will be awarded by Paul R. Swan. W. Elmer Ekblaw, a Ph.D. alumnus, now president of the general alumni association, will discuss the Russian situation.

As Dr. Albert Farnsworth, President of the Worcester County Alumni Association, announces in the notices sent to all alumni within reasonable distance of Worcester, it is an occasion for food, fun, facts, and Clark fellowship, in which all alumni, alumnae, and faculty and their spouses and sweethearts are cordially invited to have a part. The Seniors, guests of honor for the occasion, will attend in full force and panoply. Send in the notice of your coming to Dr. Albert Farnsworth or Dean Homer P. Little, c/o Clark University, Worcester, Massachusetts.

### UNIVERSITY AND COLLEGE ACTIVITIES

*Fine Arts Course.* The Fine Arts course, so ably conducted these many years by Dr. Loring Dodd, has been better this year than ever before. The program has been extended and amplified to include the very best talent available in this country. The series this year, the ninth, opened with the appearance of Walter Damrosch, conductor of the New York Symphony Orchestra. Royal Cortissoz, the famous art critic, the second number on the program, contrasted modern and Renaissance modes of expression. Subsequent numbers were by Bruce Bairnsfather, cartoonist; Margaret Severn in interpretative dances; Kreutzberg and Georgi, also in a dance program; Zona Gale in literary interpretation; Burton Holmes, the travelogue artist; and Thomas Wilder, author and critic.

*Assemblies.* Dean Homer P. Little, who is responsible for the assembly programs, has maintained a uniformly high standard, utilizing the ability of his colleagues as well as outside talent. Such men as Major C. D. Heywood, Rabbi A. J. Feldman, and Dr. John H. Randall, from without the University walls, have been enlisted in these programs.

*Rope Pull.* The annual rope pull between the sophomores and freshmen was again won by the older group. A ten minute tussle exhausted the yearlings, and four minutes more through the pond ended their ordeal. Fine sportsmanship on both sides and superior class spirit marked the contest. As usual, thousands of spectators lined up for a glimpse of the fray.

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Entered as second-class matter, December 29, 1920, at the postoffice at Worcester, Massachusetts, under the Act of August 24, 1912. Accepted for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

*Postmaster:* If undeliverable at your office and addressee's new address is known, please forward, rated with postage due to cover forwarding charge. If undeliverable to addressee return to sender. Payment of forwarding and return postage guaranteed by sender.

## ALUMNI NOTES

Dr. T. L. Patterson, A.B., '09, is now professor of Physiology at the Detroit College of Medicine. Several of his publications on Physiology have been received recently at the general office.

Chester Eliason, '30, has recently received promotion in the First National Bank of New Haven, where he has been working since graduation.

Fred Shipman, A.B., '27, is teaching American History at the College of Business Administration of Boston University. He has just completed sixteen months' study on the European Historical Mission at the Library of Congress in Washington, and expects to continue his study of history.

Samuel Whitman, '30, is at Cornell doing graduate work in the Dairy Industry.

The name of Roy F. Dibble, A.B., '12, is found in the newly published Volume V of the Dictionary of American Biography. Mr. Dibble is the only graduate of Clark College whose name appears in this volume. He was a writer of great promise, who died in 1929. One of his best known works is "The Life of Mahomet."

Robert Dickey, Raymond Becker and Milton Corbin are at Johns Hopkins University in Baltimore, doing graduate work in geology.

Philip W. Kentworthy, '30, former weather observer of Clark, is now working at his favorite occupation at the Boston Airport.

Atty. Harry J. Meleski, '19, has been appointed special assistant to the U. S. Atty. F. H. Tarr for the district of Massachusetts.

Dr. W. R. Atwood, son of President Atwood has been appointed assistant director of the field science branch of the National Parks Service with the special duty of relating the scientific features of the parks to the educational system of the country.

A recent letter from Stanley Tatham states that he is assistant manager of the Flushing Commercial Office of the Telephone Company and that Thomas Hickey and George Grondahl have similar positions in Flatbush and Richmond Hill, respectively. He reports frequent reunions of groups of eight or ten Clark men. At the last meeting Belanger, Ciano, Grondahl, Mattson and Shanahan met with Hickey and Tatham.

WTAM, Cleveland, Ohio, offers a 1930-31 series of lectures on astronomy. This special WTAM feature is conducted by Dr. Oscar L. Dustheimer, professor of Astronomy, Baldwin-Wallace College, Berea, Ohio. Dr. Dustheimer is Clark A.M. 1914.

The Worcester Evening *Gazette* of December 22 announced the Washington meeting of the City Officials, Division of American Road Builders' Association and stated that the maintenance committee included Mr. Ralph G. Lingley, City Engineer of Worcester. Mr. Lingley is Clark A.B. 1905.

W. P. Moran, A.B., '13, was recently appointed Assistant Vice-President of the National City Bank, New York.

## FACULTY ITEMS

The death of Dr. Alfred L. P. Dennis, professor of history and international relations on November 14 lost to the Clark Faculty one of its most highly esteemed and widely known members. As historian, as author, as teacher, and as research worker he occupied a foremost place among American men of letters and science. President Atwood has characterized him as a "rare scholar whose devotion to his research in his chosen field probably cost him his life."

He is survived by his wife, Mary Boardman Dennis, and two daughters, Mrs. Mary Elizabeth Standish and Miss Louise Dennis. Mrs. Dennis has presented to Clark Dr. Dennis's professional library and his specially designed desk, to be placed in the history seminar room.

Three English professors have been on the Clark staff the first semester; Sir George Young, visiting professor of European history and political science until Christmas, and Dr. T. P. Conwell-Evans who succeeded him after the holidays in this same position; and C. D. Fawcett, of the University of London, who has been special lecturer in Geography. Doctor Fawcett offered courses in the Geography of Europe, and the Geography of the British Empire.

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While Dr. Robert H. Goddard has been absent on leave perfecting his rocket for research on the character and qualities of the upper air, most of the time in New Mexico, his place has been filled by Richard A. Poindexter who is studying for his Ph.D. at Harvard, and investigating the theory of complex Spectra. Doctor Goddard is reported to have achieved successfully the object of his researches.

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Doctor George B. Cressey, graduate student in Geography who has been assisting President Atwood in the laboratory work of his Physiography courses, has been awarded the William Libbey Fellowship in geography, established last June by Mrs. Mary E. Libbey. This fellowship carries an award of \$500.00 for geographic research. Doctor Cressey is completing a study of the Ordos dessert of inner Mongolia.

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President Wallace W. Atwood, last year elected to the Presidency of the National Parks Association, last summer toured many of the western parks and traveled by pack train through the high Sierras. He plans to study the Great Smokies and the Everglades early in February.

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Professor John Paul Nafe of the Department of Psychology and Professor W. Elmer Ekblaw of the Department of Geography who have both been on leave, toured Europe last summer, Professor Nafe spending much of his time in Germany, and Professor Ekblaw studying conditions in Great Britain, Scandinavia, and Russia.

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The organic chemistry laboratory under the direction of Doctor Warren has been materially increased in size as demanded by the increased number of students, now over thirty.

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The departments of chemistry, physics, and biology will resume the preparation of students for the doctorate, and the degree of Ph.D. will again be granted from those departments.

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The National Council of Geography Teachers and the Association of American Geographers held their annual convention at Clark in the Christmas holidays. Over two hundred members were in attendance at the meetings. Clark geographers contributed many papers to the programs, and Dr. D. C. Ridgley was elected president of the National Council.

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Dr. W. Elmer Ekblaw and Dr. D. C. Ridgley have organized the Home Geographic Society and launched the *Home Geographic Monthly*, a magazine designed primarily for children but appealing likewise to adults.

\* \* \* \* \*

Prof. Norman E. Himes coaches the debating team. A strong team looms on the horizon for a number of debates are already scheduled for the second semester.



## STUDENT AFFAIRS

### Athletics

*Soccer* engrossed the attention of the men during the fall in a season characterized by disappointing defeats despite plucky play against odds. Ties with Connecticut Aggies, Brown, Northeastern, and Tech, and defeats by Williams 4-1, Amherst 3-1, and Wesleyan 4-1, constituted the season. The Clark defense was unusually strong but the team seemed unable to pull itself together for strong offensive attack. The prospect seems fairly good for an aggressive team next year.

*Basketball.* With the decline of soccer basketball came to the fore. To date the season has been disastrous. The season opened with a win over the alumni 33-18. Then in succession came defeats by Northwestern 42-31, Rhode Island State 33-19, Brown 49-26, Northeastern 44-25, Amherst 32-28, Tech 31-26, Mass. Aggies 26-5, and Boston University 45-26.

Six games are left to play: Feb. 4, Tufts at home; Feb. 7, Trinity at Hartford; Feb. 14, Lowell Textile, at home; Feb. 18, Harvard at Cambridge; Feb. 21, Mass. Tech at Cambridge; and Feb. 28, Tech at home. As usual the game with Tech climaxes the season. Will the alumni be there to help the team win?

*Cross-country.* In the Harvard annual intercollegiate cross-country run, Clark finished eighth in a field of nine. Through a driving rain and over a muddy course, Boston U. defeated the Clark harriers in their dual meet by a score of 24-32. And in the final race of their season the Clark men were again forced to bow in defeat to the Amherst runners by a score of 18-43.

*Minor Athletic Activities.* Tennis, interclass basketball, interclass track, a sophomore-freshman football game won by the second year men 25-7; fencing, and boxing, have shared the athletic interests of the Clark men.

### Cups

Barrie's play "Dear Brutus" was chosen for the first presentation by Cups. Under the able direction of Professor George E. Baker the cast was carefully selected and trained, and on Friday evening, January 9, it produced one of the most finished bits of dramatic work that Clark talent has presented in many a day, a highly creditable performance throughout. All the parts were well taken. The crowd was the largest in the history of Cups.

### Glee Club

The Glee Club attracted one of the largest groups of competitors in many years. Seventy men entered the lists, and from this abundance of material, Director Winslow Hanscom succeeded in organizing a most satisfactory club. The first public appearance was at Piedmont Congregational church, November 20. On November 26 the Club traveled to Falmouth, where it gave an hour's concert for the Masonic convention. Leslie Partridge, baritone, and Samuel Levinson, pianist, accompanied the Club as soloists. On January 16, the Club sang at Fisherville. The alumni will have an opportunity to hear just how good the Glee Club is at the annual Clark Night celebration.

### Publications

The Clark News appears regularly each week, an excellent summary of current Clark events. Horace A. Brown, '31, is editor-in-chief; Philip Lukens, '32, is associate editor, and David P. Bliven, '33, is Managing Editor with Leonard J. Schweitzer, '33, his assistant. A superior standard of newspaper production is sustained. The news section is admirably done, and the editorial comment is, in general, dignified and critical.

The staff for the 1931 Pasticcio has been appointed by Philip W. Johnston, president of the Senior class. Maxwell Beber will be editor of the annual, Louis Shapiro associate editor, and Philip Klinglof, managing editor.

# Clark University Bulletin

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NUMBER 81

JANUARY, 1931

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## The Summer School 1931

JUNE 29—AUGUST 7

The Bulletin is published in January, February, March, April, May, June,  
October, November, and December

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## Schedule of Lecture and Recitation Hours

INSTRUCTOR	8	9	10	11	12	AFTERNOON
ATWOOD			Geography *21		Geography 119	Geog. *300
BRANDENBURG			Economics *4	Economics 1		
BROOKS						Geography *32
BURNHAM				Geography 191	Geography 190	
BYE	History 12		History 16			History 11§
EKBLAW		Geography *27		Geography *285		Geog. 11§, *37
ILLINGWORTH			English 1	English 2	English 3	
JONES						Geography *202
KOEPPE	Geography 12		Geography 122			Geog. *32
LEE		History *21		History *22		
LITTLE	Geology 1					
RIDGLEY	Geography *28	Geography 181				Geog. 180+
WHITE						Geog. *204
GEOGRAPHY STAFF						Geog. *30†

NOTE: All the above courses are Summer School courses. The symbol "§§" before the numeral which distinguishes courses in Summer School from those given during the regular academic year, is omitted. \*Courses suitable for graduate credit. §Saturdays. †Wednesdays at 3. ‡Mondays, 3 to 5.



## Calendar

- June 29, Monday, beginning 9 A. M. Registration Day.  
12 M. Opening Assembly.  
8-10 P. M. Reception to members of the Summer School.
- June 30, Tuesday, 8 A. M. Lectures and recitations begin.
- July 2, Thursday, 8:30 P. M. Open lecture. "Rural Japan." Illustrated. President Wallace W. Atwood.
- July 4, Saturday. Caribbean and Transcontinental Field Trips begin.
- July 9, Thursday, 8:30 P. M. Open lecture. "Rambles about the Mediterranean." Illustrated. Dr. Homer P. Little.
- July 16, Thursday, 8:30 P. M. Open lecture. "Vistas of North Europe and Russia." Illustrated. Dr. W. Elmer Ekblaw.
- July 23, Thursday, 8:30 P. M. Open lecture. "The Hawaiian Islands." Illustrated. President Atwood.
- July 30, Thursday, 8:30 P. M. Open lecture. "Economics for Today." Dr. Samuel J. Brandenburg.
- Aug. 6, Thursday, 8:30 P. M. Final Assembly. Conferring of Degrees.
- Aug. 7, Friday. Summer session closes. 2 P. M., Middle States, Maryland, Virginia Field Trip begins.
- Aug. 8, Saturday, 8 A. M. Canadian Field Trips begin.
- Aug. 11, Tuesday. Caribbean Field Trip ends.
- Aug. 17, Monday. Transcontinental Field Trip ends.
- Aug. 21, Friday. First Canadian Field Trip ends.
- Aug. 22, Saturday. Middle States, Maryland, Virginia Field Trip ends.
- Aug. 28, Friday. Second Canadian Field Trip ends.

All meetings will be held in the Jonas G. Clark Auditorium unless announcement to the contrary is given.

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### COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY  
THE DIRECTOR OF THE SUMMER SCHOOL  
MESSRS. BLAKESLEE, MELVILLE, BRANDENBURG

# Officers of Instruction and Administration

- WALLACE WALTER ATWOOD, PH.D. Geography  
B.S., University of Chicago, 1897; Ph.D., 1903. President of Clark University and Director of the Graduate School of Geography.
- DOUGLAS CLAY RIDGLEY, PH.D. Geography  
A.B., Indiana University, 1893; M.S., University of Chicago, 1922; Ph.D., Clark University, 1925. Director of the Summer School and Professor of Geography in Education, Clark University.
- CHARLES FRANKLIN BROOKS, PH.D. Meteorology and Climatology  
A.B., Harvard University, 1911; A.M., 1912; Ph.D., 1914. Professor of Meteorology and Climatology, Clark University.
- CLARENCE FIELDEN JONES, PH.D. Geography  
B.S., University of Chicago, 1917; Ph.D., 1923. Professor of Economic Geography, Clark University.
- WALTER ELMER EKBLAW, PH.D. Geography  
A.B., University of Illinois, 1910; A.M., 1912; Ph.D., Clark University, 1926. Geologist and Botanist, Crockerland Expedition, 1913-17. Professor of Geography and Managing Editor of *Economic Geography*, Clark University.
- CHARLES LANGDON WHITE, PH.D. Geography  
B.S., Denison University, 1920; Ph.D., Clark University, 1925. Head of Department of Geography, Randolph-Macon Woman's College.
- CLARENCE EUGENE KOEPPE, PH.D. Meteorology and Climatology  
B.S., Colgate University, 1920; A.M., Clark University, 1927; Ph.D., 1929. Head of Geography Department, State Teachers College, Springfield, Missouri.
- GUY H. BURNHAM, A.M. Cartography  
A.B., Clark University, 1916; A.M., 1922. Cartographer, Clark University.
- HOMER PAYSON LITTLE, PH.D. Geology  
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910. Dean of the College and Professor of Geology, Clark University.
- DWIGHT ERWIN LEE, PH.D. History  
A.B., University of Rochester, 1921; A.M., 1926, Ph.D., 1928, Harvard University. Assistant Professor of Modern European History, Clark University.
- EDGAR C. BYE, A.M. History  
A.B., Haverford College, 1915; A.M., University of Pennsylvania, 1922. Professor of History, State Teachers College, Montclair, N. J.
- ~~SAMUEL J. BRANDENBURG, PH.D. Economics~~  
~~A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922. Professor of Economics and Sociology, Clark University.~~
- ROBERT STANLEY ILLINGWORTH, A.M. English and Dramatics  
A.B., Clark College, 1917; Student, American Academy of Dramatics, 1917-18; A.M., Lafayette College, 1926. Headmaster, Swavely School, Manassas, Virginia.
- EUGENE C. BELKNAP Source Material in Economic Geography  
Curator, Department of Chemistry.
- CAREY EYSTER MELVILLE Registrar
- FLORENCE CHANDLER Bursar
- James<sup>[4]</sup> A. Maxwell, Ph.D. Economics

## The Summer School at Clark University

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

These studies are essential in the training of teachers who recognize as their goal the development of the highest type of citizenship. A knowledge of the geographic environment and its influence upon human affairs, a knowledge of the history of peoples and of how they make a living, and a knowledge of economic principles and their application to national and world problems should help to dissipate fears and suspicions and lead in the end to a better understanding among the nations of the world.

Clark University, with its extensive equipment in library and map resources, offers to its Summer School students the full use of all facilities available for the undergraduate and the graduate divisions of the University during the academic year. The concentration of the Summer School courses in three closely related departments of study,—Geography, History, and Economics,—results in a student body of moderate size with ample opportunity for ready use of the resources of the University in these departments. Courses in English are also offered for the summer session of 1931.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

### LOCATION AND BUILDINGS

Clark University occupies a tract of ground lying between Main and Woodland and Maywood and Downing Streets in the city of Worcester, situated about a mile and a quarter from the City Hall. Trolley cars from the Union Station either run directly past the University or make connections at the City Hall with cars running south on Main Street which pass the University. Taxicab service is available at moderate price.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography Workroom are in the Geography Building where some classes are held.



In the Science Building are located the lecture room and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

### THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the institution, and affords favorable opportunities for study and research. The Library now owns more than 137,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains some 245,000 volumes and makes accessible to the public about 600 newspapers and magazines. The educational books in the circulating department of the Public Library have been grouped together in a corner of the Delivery Room, where they may be inspected by persons interested. Teachers' magazines, with other interesting pedagogical material, may be consulted in the Children's Department and in the General Magazine Reading Room. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 148,000 volumes, and some 223,600 pamphlets. In addition to the Society's valuable manuscripts of the Colonial period, it has an unequaled collection of books printed in America in the early period, and of American newspapers from 1660 to 1860.

### ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the Collegiate Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the Collegiate Board.

### REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this BULLETIN and forward it, with the registration fee of two dollars,

to the Registrar of Clark University. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on June 29. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, Registrar, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A. M. and noon on Monday, June 29, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, June 29, at 12 o'clock. Class work will begin promptly on Tuesday morning.

### CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University. Three courses constitute a full schedule; a maximum of four courses may be taken, but only with the consent of the Director.

A certificate, with a statement of courses taken and grades received will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Registrar's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degree of Bachelor of Arts, Bachelor of Education, or Master of Arts, *subject to the general regulations of the University.*

### THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Collegiate Department of the University may secure not more than six semester hours of credit toward the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the Collegiate Board and that programs of study be approved by the Registrar.

### THE BACHELOR OF EDUCATION DEGREE

This degree is designed for teachers, both men and women, who have completed a two-year normal school course or its equivalent.

Candidates for this degree may complete the requirements by work in the Summer School, in Extension courses, Home Study courses or in other courses open to them under the regulations of the University. At least 30 hours of credit must be earned *in residence* at Clark University. If the minimum residence credit is earned wholly in summer sessions, the time required will be at least four full summer sessions. The completion of 120 hours of college credit is required for this degree. The standard two-year course in a Massachusetts state normal school may usually be counted for 54 hours and certain specified requirements in particular subjects must be met. A special circular stating in full the requirements for the Bachelor of Education degree will be sent upon request. Correspondence concerning this degree is invited. Personal conferences with the Director or the Registrar during the Summer School will enable prospective candidates to arrange programs of study for succeeding summer sessions.

### THE MASTER OF ARTS DEGREE

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during a minimum period of one semester of the regular academic year, and three summer sessions, or their equivalent in field trips or other residence work, preparing an acceptable thesis, and passing a satisfactory oral examination. Graduate credit may be obtained only in those courses designated by an asterisk (\*) in the announcement of courses in this BULLETIN. *All programs of work to be applied toward the requirements for the degree of Master of Arts must be approved in advance by the major department concerned.*

Early correspondence is requested by all who wish to begin work for graduate credit.

### TUITION AND FEES

Students taking two or more courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. For a statement of fees for Field Trips conducted by the Department of Geography, and the Department of History, see pages 22 to 26.

Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. This fee is paid only once and is not returnable.



- Tuition may be paid at any time before 5 P. M. of Friday, July 3. Checks should be made payable to Clark University.

### BOARD AND ROOMS

The rooms in the college dormitory, Estabrook Hall, will be available for women students during the Summer School. These rooms are exceedingly attractive and are furnished with everything necessary *except bedding*. The Hall is very conveniently located. A number of two-room suites for two persons rent for \$4 per week, per occupant. One person may secure a two-room suite for \$7 per week. A few large rooms, each suitable for two persons, are rented at \$3 per week, per occupant; for one person, \$5 per week. Bedding will be provided for an additional charge of \$1.50 per person, per week. Early correspondence is invited. Good rooms may be had in private homes near the University. The Dining Room is located in Estabrook Hall and table board will be provided for members of the Summer School at \$8 per week.

The Faculty House, on Woodland Street across from the University, and one or more of the college fraternity houses will probably be available for the accomodation of a limited number of Summer School students.

### OUTSIDE ACTIVITIES

It is the intention of the Summer School not only to provide a daily program of serious work, but to afford the students and instructors opportunities for relaxation and enjoyment as well. Among these are courses of public lectures, entertainments, and excursions to places of scientific or historic interest. The working schedule has been planned so that those who desire to take advantage of the excursions or to visit Boston or other neighboring cities at week-ends may do so without detriment to their regular work.

The University Gymnasium and the Maywood Street tennis courts provide opportunity for both indoor and outdoor exercise. The summer climate of Worcester is pleasant; periods of excessive heat are rare; and Lake Quinsigamond, at the edge of the city and easily accessible by trolley, offers excellent facilities for boating and canoeing. Coes Pond, within easy walking distance of the University, is a favorite resort of summer bathers.

### EXCURSIONS

Saturday and afternoon excursions conducted by members of the Summer School staff have been instructive and enjoyable features of past sessions. Some of the points visited have been Mt. Wachusett, Mt. Monadnock; the Connecticut valley including Mt. Tom; Plymouth; Provincetown; Boston, Salem and Marblehead, the Wayside Inn; Lexington and Concord, Cohasset, famous for its carillon.

In previous summers, excursions were made to some of Worces-

ter's industrial plants, including the Crompton and Knowles Loom Works, the American Steel and Wire Company's South Works, the Whittall Rug Factory and the Norton Company.

For the coming session trips will be planned to suit the interests of the student body.

### ILLUSTRATIVE MATERIALS

Mr. Eugene C. Belknap, Curator, Department of Chemistry, will provide a selection of literature, pictures, and specimens appropriate for use in teaching geography, history, English, and other subjects. Members of the Summer School should visit the exhibit early in the term in order to appreciate its value and to select material of specific value in their teaching. This material forms the basis of the laboratory exercises in the course on "Visual Aids in Geography and History."

### THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

### NEW YORK STATE CLUB

In 1928 the members of the Summer School from New York State organized the New York Club of Clark University. The Club will hold its first meeting of the summer session of 1931 at 2 P. M., Monday, June 29, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present.

### SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from places west of Chicago are in effect from June to October. These rates offer a substantial reduction in transportation costs whether the tickets are for round trip rates over the same railroads or for return by a different route. Round trip tickets are usually made out for Marblehead, Massachusetts. Stop-over privileges are allowed at Worcester. The trip to Marblehead and return to Worcester may be made during the Summer Session. Inquiry should be made at local ticket offices well in advance of the date of starting.

### THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.

## DEPARTMENT ANNOUNCEMENTS

*The right is reserved to withdraw any course listed in the event of a registration too small to justify its being given.*

*Courses marked with an asterisk (\*) are primarily for advanced students.*

### GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally. At any summer session, however, courses not regularly planned for that summer may be given if there is a demand and if a reasonably large class is assured.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the Geography Workroom.

**\*SS21. Regional Geography of North America.** This course will include a description of the fundamental principles underlying the sub-division of North America and of the other continents into geographic regions. The physical geography of each of the major regions of North America will be presented in some detail, and the human response to the physical and economic conditions in each region will be so developed that the unity which characterizes a well organized treatment of geography will be illustrated over and over again.

The educational value and the great time saving quality in a rational development of regional geography is well illustrated in turning from the study of one continent to the study of another. This should become quite evident as the work proceeds.

The modern methods for studying maps, including comparative map studies, which represent the highest type of map study work, will be illustrated throughout our course. Map projects, to be carried out, under instruction, in the Workroom of the School of Geography, will be assigned to the members of the class so that the educational basis for the teaching of geography through greater activity on the part of the students may be emphasized and illustrated.

*Daily, except Saturday, at 10.*

PRESIDENT ATWOOD

**SS119. World Geography.** No movement in American civilization during the last decade has been more significant than the



broadening of our point of view. Progress in science and technology has brought the peoples in all civilized nations of the world closer together. Each year hundreds of thousands of people visit foreign lands. Tons of mail, including messages of good will and commercial proposals, are constantly passing back and forth between the various sea ports of the world. Millions of tons of freight cross the seas every year. Just as certainly as commodities are exchanged, so are ideas, and it is imperative that work be introduced into the curricula of all American schools which will lead to a better understanding and a more intelligent sympathy for the different peoples of the world.

The treatment of World Geography in this course will be based upon the occupations of people. The geographical conditions affecting those occupations, and affecting the distribution of people on the earth will be carefully analyzed.

The natural geographic regions and the climates of the world will be reviewed, as they are fundamental in the understanding of the work going on in different areas.

*Daily, except Saturday, at 12.*

PRESIDENT ATWOOD

**\*SS28. Geography in Education for Special Teachers.** This course is designed to meet the needs of geography teachers who wish to work specifically on their individual problems. Special topics will be developed and the results presented in class. Members of the class may develop full details for the presentation of a course in geography for a single year, or for courses for elementary school, junior high school, senior high school, normal school, or college. Lesson plans and topics of individual interest may be developed in detail. A wide variety of problems gives interesting side lights to many phases of the geography curriculum of value to all. The library and geography workroom are well equipped for the pursuit of this course. A few local field lessons will be given, and opportunity will be offered for the examination of printed matter and museum specimens available for the course in "Visual Aids in Geography and History."

*Daily, except Saturday, at 8.*

DR. RIDGLEY

**SS181. The Teaching of Geography.** A discussion of the scope and purpose of geography. A comparative study of recent courses in geography. Methods of presentation suitable for elementary school and junior high school, including the journey lesson, the problem method, projects in geography, and the type study method. Standard equipment for geography teaching. Local field lessons and their application to the various grades. Wide library reading. Consideration of the effective use of pictures, maps, and

printed matter in text-book and reference books. A comparative study of available tests in geography.

The library contains an extensive collection of recent books for teachers and pupils, and the geography workroom offers exceptional opportunities for the making of maps for classroom use. Much of the library reading may be selected with direct reference to the needs of next school year. Opportunity will be given to examine the printed matter and museum specimens available for the course in "Visual Aids in Geography and History."

*Daily, except Saturday, at 9.*

DR. RIDGLEY

**SS180. Visual Aids in Geography and History.** A laboratory course in the preparation of materials for use as visual aids in instruction. The study of materials and literature. The collecting, classifying, and study of printed matter available on industry, travel, and geographic and historical conditions. The selecting of raw materials and manufactured products available which have been collected from all parts of the world and mounting them, together with descriptive literature, into permanent exhibits for classroom use. Teachers prepare the exhibits for their own lecture and classroom work. The laboratory work will be suited to the individual needs of the members of the class; abundant material is available to aid teachers of geography, history, English, general science, and home economics to prepare visual aids for their particular subjects. Each student will have opportunity to develop one or more projects. The selection and use of lantern slides and stereographic views will be discussed. Manipulation of the lantern to obtain best results will be demonstrated, and practiced by members of the class. There will be group conferences and individual instruction. Enrollment is made by obtaining approval of Dr. Ridgley and assignment of laboratory space in the Chemistry building by Mr. Belknap.

*Laboratory work daily, at convenience. Group conference Mondays, 3 to 5 P. M., beginning June 29, in Chemistry Lecture Room.*

DR. RIDGLEY AND MR. BELKNAP

**SS11. Field Work in Geography.** To meet a demand for training in field observations this course is so planned that the students will engage in a reconnaissance study of several typical regions of New England. Saturdays will be devoted to motor coach trips for the study of a representative section of the New England Upland and the Harvard Forest at Petersham; the Clinton-Harvard apple growing district and Mt. Monadnock, the Sudbury and Boston Basins and the Metropolitan environs of Boston to Cohasset; the industrial conurbation of the lower Blackstone Valley and Narragansett Bay Region and the resort development about Newport,

R. I.; and, if time permits, the unique and distinctive communities of Cape Cod to Provincetown. Students planning to take this course must reserve all day Saturday of each week, for the field work, and will receive a credit of one semester hour for satisfactory completion of the course. The course is required of all students in SS27, and recommended for those in SS285. Transportation costs for regularly enrolled students will be \$15.00 if five days are spent in the field; \$12.00 if four days are used. Single trips \$3.50 per person.  
*All day Saturday.* DR. EKBLAW

**\*SS27. Influences of Geographic Environment.** A review of geographic factors in history, classes of geographic influences, society and state in relation to the land, and movements of peoples in their geographical significance; location, area, boundaries, coasts, oceans, and seas, as factors in human activities; the anthropogeography of rivers, continents and their peninsulas, islands, plains, steppes, and deserts, and mountain barriers and their passes; the influence of mountain environment, and of climate. Field work on Saturdays is required. See SS11.

*Daily, except Saturday, at 9.*

DR. EKBLAW

**\*SS285. Geography of Europe.** A regional analysis of the political and economic development of the countries of Europe as affected by their physical character; an interpretation of the past history and present activities of the peoples of Europe in relation to their land. The course will emphasize the influence of the geographic environment in the evolution of European civilization and the rise of the European nations to world dominance. It will indicate the geographic bases of the internal and international problems which Europe faces today. It constitutes a cultural as well as an educational approach to a fuller knowledge and understanding of the European backgrounds to American history and development.

This course will be of special value to those who may be planning to take the European Field Trip in 1932. See announcement page 26.

*Daily, except Saturday, at 11.*

DR. EKBLAW

**SS12. Weather.** This course deals first with the simple weather elements which may be observed under any conditions from day to day, and second with a study of the weather processes with a view to their application to the study of geography in general and of climate in particular. It presupposes that the student has had no special training in meteorology, physics, or mathematics; yet, it is so planned that the more scientifically inclined student may pursue the subject with a maximum of profit. This course should ordinarily be taken before Geography SS122.

*Daily, except Saturday, at 8.*

DR. KOEPPÉ



**SS122. Climate.** The course takes up first a study of the various climatic elements and controls and their application to continental, marine, mountain and plateau climates. This is followed by a consideration of the world distribution of temperature, pressure, winds, and precipitation. About half the time is given to regional climatology based on types of climate. Throughout, considerable attention will be given to the reduction and graphic representation of climatic data. Although there is no prerequisite for this course, some students will find it to their advantage to pursue first Geography SS12.

*Daily, except Saturday, at 10.*

DR. KOEPPPE

**SS191. Graphics and Cartography.** This course will aim to help teachers to a better understanding of graphic methods and map projections. Some time will be spent in the construction and discussion of charts, graphs, and diagrams, but the major part of the course will be devoted to cartography. The more important map projections will be drawn and their advantages and disadvantages discussed. This work will be supplemented by a survey of the map and atlas collection in the Geography Workroom.

*Daily, except Saturday, at 11.*

MR. BURNHAM

**SS190. Mathematical Geography.** A study of the earth's relations to the sun, moon, and other heavenly bodies and their influence on human life. The seasons, changing length of day and night, latitude, longitude, time, and the calendar, receive attention. The principal constellations will be observed and studied. Methods of presentation suitable to junior high school pupils. For teachers who wish to obtain content and method for presenting effectively those phases of mathematical geography essential to a clear understanding of the human aspects of geography.

*Daily, except Saturday, at 12.*

MR. BURNHAM

**\*SS30. Seminar in Geography.** A report and discussion seminar for advanced students in geography; reports on research problems and theses; attendance required of all students working on theses or registered for research in any geography course. Students taking seminar should have problems selected, ready for announcement at the first meeting.

*Wednesday, at 3.*

THE GEOGRAPHY STAFF

**\*SS300. Research in Regional Geography.** For properly qualified students.

PRESIDENT ATWOOD

**\*SS37. Research in Human Geography and Geography of Europe.** For properly qualified students.

DR. EKBLAW

**\*SS32. Research in Climatology.** For properly qualified graduate students.

DR. BROOKS AND DR. KOEPPE

Teachers and students of geography who wish a broader knowledge of the history and international relations of Europe or of the economic history of the United States will find interest in the following courses in History and Economics.

**History \*SS21. The History of Europe 1500 to 1815.**

DR. LEE

**History \*SS22. Recent International Relations of Europe.**

DR. LEE

**Economics \*SS4. Economic History of the United States.**

DR. BRANDENBURG

*For Field Trips see pages 22 to 26.*

### HOME STUDY COURSES IN GEOGRAPHY

Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is \$18. As soon as the tuition fee is received the complete set of lessons is forwarded. A bulletin describing all courses offered will be sent on request. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

#### COURSES ON THE TEACHING OF GEOGRAPHY

1. The Teaching of Geography in the Elementary School.
  - 1a. The Teaching of Geography Based on the New York State Syllabus, Grades 3, 4, 5, and 6.
  2. The Teaching of Home Geography and World as a Whole.
    - 2a. The Teaching of Third Grade Geography of the New York State Syllabus.
  3. The Teaching of North America.
  4. The Teaching of South America, Europe, and Asia.
  5. The Teaching of Geographic Factors and the United States in its World Relations.
    - 5a. Visual Aids in Teaching.

## ACADEMIC COURSES IN GEOGRAPHY

6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
- 9a. Home Study Course for European Travel.
10. Geography of the Eastern Continents.
11. The Physical Geography of the Lands.
12. Weather.
13. Elements of Climatology.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

Special attention of teachers and students who cannot attend Summer School is called to the opportunity offered by these home study courses to secure the same amount of college credit through home study courses as through the regular summer school period. Two home study courses give the same amount of college credit as the regular program of the summer school session. By enrolling early for a home study course, plans can be made for prompt and steady progress immediately at the beginning of the summer vacation. The completion of one or two home study courses during the summer can be readily accomplished.

## GEOLOGY

**SS1. Physical Geology.** About one third of this course will be given over to a study of the common minerals and rocks which one is likely to see on cross-country trips or to have brought into the school room for identification. The balance of the course will be spent in a systematic study of the work of wind, water, ice, and sub-surface forces, in modifying the surface of the earth. The course may best be summarized as a scientific study of the origin of scenery. Special emphasis will be placed in the laboratory on obtaining mastery of the topographic map. A laboratory fee of \$2.00 will be charged. This is payable to the Bursar.

*Four lecture-recitation periods at 8 and a Thursday afternoon laboratory period weekly.*

DR. LITTLE

## HISTORY

**\*SS21. The History of Europe, 1500 to 1815.** After a brief introduction dealing with the Italian Renaissance and its significance, the Reformation, the history of France and the developments lead-



ing to the French Revolution will be particularly emphasized. The decline of Spain, the rise of the British Empire, and the rise and development of Prussia and Russia will also be touched upon.

*Daily, except Saturday, at 9.*

DR. LEE

**\*SS22. Recent International Relations of Europe.** The aim of the course will be to provide a background and a method for the study and appreciation of current events in the field of international affairs. After a rapid preliminary survey of the developments since the World War, emphasis will be fixed upon particular topics according to the desires and needs of those who elect the course. Among the topics to be treated in detail are the following: The League of Nations and its work, Reparations, the problem of security involving particularly the Rhine frontier of France and the states of the Little Entente, Balkan problems, the foreign relations of Fascist Italy and of Soviet Russia, the problem of disarmament, the Paris Pact, and the recent developments such as the United States of Europe. The major part of the work in the course will consist of reports by the students who will be aided and directed individually in preparing and presenting papers.

*Daily, except Saturday, at 11.*

DR. LEE

**SS12. American Life and History, 1607-1783.** In this course a study will be made of the distinctive culture areas, which developed in the American colonies, in terms of their geography, history, relation to each other, internal cultural relationships and contributions to the mosaic of modern American life. The major regions to be considered will be the New England, Hudson, Delaware, (Quaker and German), Chesapeake, frontier and south Atlantic areas. The course is intended for teachers of American History and others interested in early American culture. It will deal with the political, economic, and social development of the colonies with a view to interpreting the surviving characteristics of the regions studied. The course will be found most profitable if taken in conjunction with History SS11 and the Middle States, Maryland, and Virginia Field Trip. Lectures, readings, reports.

*Daily, except Saturday, at 8.*

PROFESSOR BYE

**SS16. The Teaching of History.** This is a practical course in methods of teaching history for teachers or prospective teachers and supervisors. Emphasis will be laid upon junior and senior high school work, but teachers in any grade will find the course helpful. The topics discussed include the pupil, the teacher, the objectives, the content, the teaching, and the testing. Practical problems, such as supervised study, the various types of recitation, socialized methods, projects, devices and aids, dramatization, the selection and use of

books, drill and review, tests and current history teaching are studied through readings, reports, and discussions. The technique of history teaching is viewed as direction of learning rather than the imparting of information. An extensive bibliography for immediate use and future reference is provided and the course is conducted in a classroom containing a very complete exhibit of materials used in the teaching of the social studies. The student has the opportunity of becoming familiar through actual contact with maps, textbooks, notebooks, syllabi, games, pictures, standardized tests, current events materials, publications for history teachers, and other aids for the teaching of history.

*Daily, except Saturday, at 10.*

PROFESSOR BYE

**SS11. Observational History of Massachusetts.** In this field course, particularly designed for teachers of American history and literature, a unique opportunity is given to learn through direct contacts the significance of the leading events of colonial and revolutionary history which occurred in this region. It will be found most profitable if taken in conjunction with SS12. The class devotes all day Saturday of the first, second, third, and fourth weeks to work in the field, traveling by motor coach through the areas studied. One credit will be granted upon completion of the required reading and field notes. The cost of transportation for the four trips is \$12. Persons who do not wish credit may secure seats, when vacant, for single trips at \$3.50 per trip. The field studies are as follows:

**Field Study No. 1. Pilgrims and the South Shore.** Plymouth, Duxbury, Marshfield, Quincy, Dedham. A study of the Plymouth Colony, with incidental visits to the Webster estate in Marshfield, the Adams homes in Quincy and the Fairbanks house in Dedham.

**Field Study No. 2. Puritans and the North Shore.** Danvers, Salem, Marblehead. A study of the beginnings of the Massachusetts Bay Colony, with glimpses of Hawthorne's Salem, the clipper ship era and the Revolution.

**Field Study No. 3. Puritan Pioneers in the Connecticut Valley.** Hartford, Springfield, Deerfield. The main theme will be the expansion of New England and life on the first frontier. Among other objects of interest are the dinosaur tracks near Mt. Tom, the Lincoln Emancipation table in Hartford, the old State House where the Hartford Convention met, and the New England Village at Springfield.

**Field Study No. 4. Beginnings of the Revolution.** Boston, Cambridge, Lexington, Concord. A further study will be made

of the early history of the Massachusetts Bay Colony, but emphasis will be placed upon the genesis of the American Revolution. Harvard University, the historic and literary homes and haunts of Cambridge and Concord and the Wayside Inn at South Sudbury will be included.

*All day Saturday.*

PROFESSOR BYE

Teachers and students of History will find interest in the following courses in Geography and Economics.

**Geography \*SS21.** Regional Geography of North Ameirca.

PRESIDENT ATWOOD

**Geography \*SS27.** Influences of Geographic Environment.

DR. EKBLAW

**Geography \*SS285.** Geography of Europe. DR. EKBLAW

**Economics \*SS4.** Economic History of the United States.

DR. BRANDENBURG

*For Field Trips see pages 22 to 26.*

## ECONOMICS

**SS1. Principles of Economics.** The complete course, offered in two parts, SS1 in 1931, SS2 in 1932, is the equivalent of Economics 11, offered three hours a week through both semesters of the regular academic year. The purpose is to assist the student in thinking clearly and accurately on economic subjects and in applying fundamental principles to actual conditions. The course opens with a brief survey of the development of our present economic organization which seeks to show the essential social character of all economic activity. It gives attention to the various aspects of our economic specialization and interdependence, and to the chief forms of business enterprise. It stresses particularly the economic principles underlying the production, valuation, distribution, and use of goods.

*Daily, except Saturday, at 11.*

~~DR. BRANDENBURG~~  
Maxwell

**\*SS4. Economic History of the United States.** This course will trace the economic progress of the United States from the Colonial times to the present. The emphasis, however, will be upon the period since the Civil War, in order that important contemporary problems can be studied. Such topics as the following will be treated: Economic life in the Colonies; early agriculture and manufacture; changes in the forms of transportation; domestic and foreign commerce; tariff policy, especially as it affects different sections of the country; currency and banking; immigration and population; labor organization; the tendency toward co-operation and industrial democracy; and the question of women and children in industry;



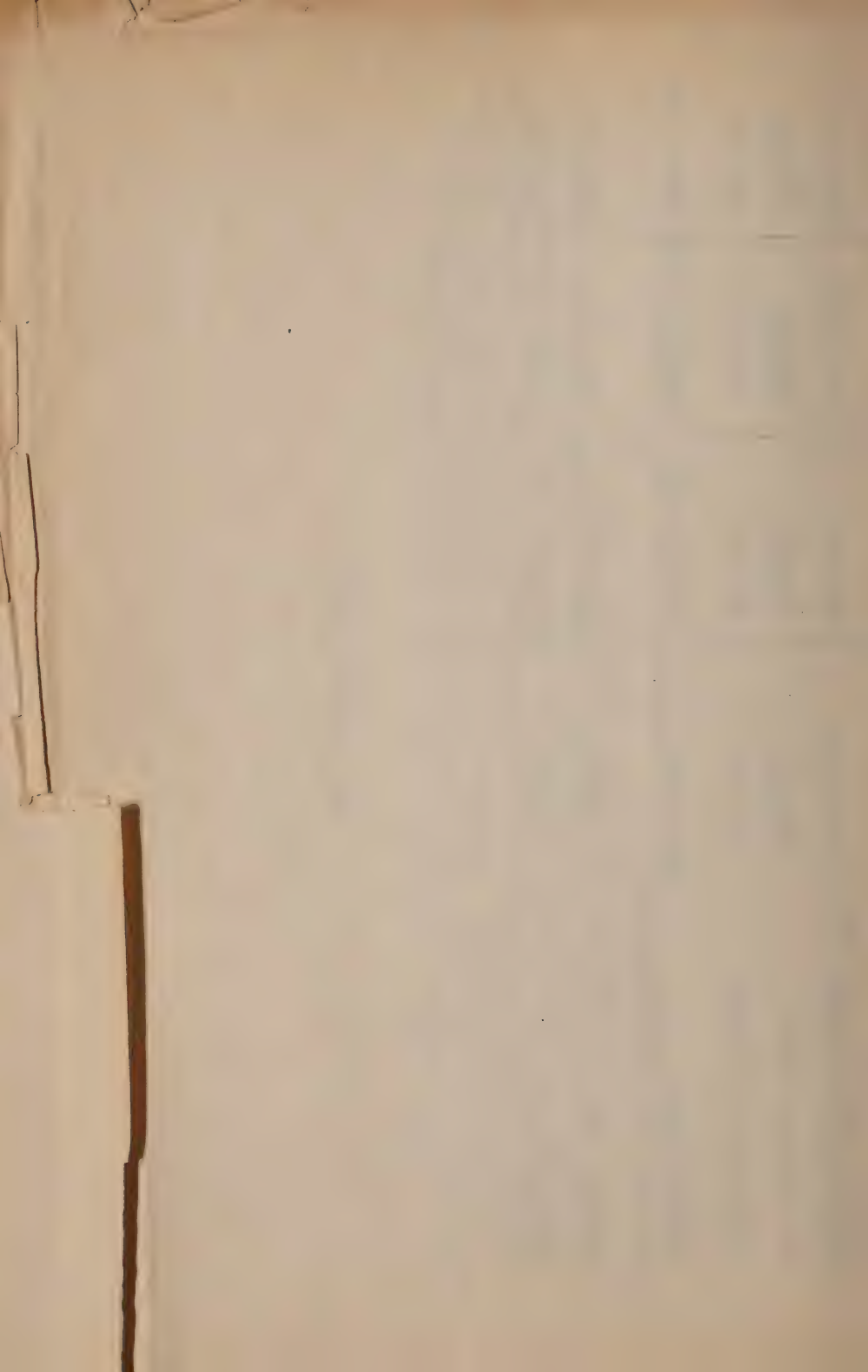
*University of Washington*

## THE ACADEMIC YEAR

The academic year begins on the Tuesday before the fourth Thursday in September, and Commencement Day is the thirty-seventh Monday following (the first or second Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are two recesses during the college year: two weeks including Christmas and New Year's Day, and the first full week in April. University exercises are suspended also on Washington's Birthday and Memorial Day.

For the next few years the calendar following this statement is as follows.

	<u>1931-32</u>	<u>1932-33</u>	<u>1933-34</u>	<u>1934-35</u>
Academic Year Begins	Sept. 22	Sept. 20	Sept. 26	Sept. 25
Thanksgiving	Nov. 26	Nov. 31	Nov. 30	Nov. 29
Christmas Recess (1 P.M. Sat. to 8 A.M. Mon.)	Dec. 19 - Jan. 4	Dec. 17-Jan. 2	Dec. 23-Jan. 8	Dec. 22-Jan. 7
2nd Semester Begins	Feb. 1	Jan. 30	Feb. 5	Feb. 4
Washington's Birthday	Feb. 22	Feb. 22	Feb. 22	Feb. 22
Spring Recess (1 P.M. Sat. to 8 A.M. Mon.)	Apr. 2-11	Apr. 1 - 10	Mch. 31-Apr. 9	Apr. 6-15
Memorial Day	May 30	May 30	May 30	May 30
Commencement	June 6	June 5	June 11	June 10



recent economic changes, industrial depression, and unemployment. Class work will be conducted by means of discussion and reports on these and similar topics.

*Daily, except Saturday, at 10.*

Maxwell  
DR. BRANDENBURG

## ENGLISH

**SS1. Contemporary Drama.** A study of the technique and practice of the modern drama, as illustrated in the works of Ibsen and the best modern dramatists of England and America.

*Daily, except Saturday, at 10.*

PROFESSOR ILLINGWORTH

**SS2. Fundamentals of Public Speaking.** A course in the composition and delivery of speeches and practice in impromptu speaking. The student is taught to breathe correctly; exercises are given to overcome speech defects; relation of speaker to audience; posture, movement, gesture, pronunciation and enunciation, methods of preparing a speech, and vocabulary building. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.

*Daily, except Saturday, at 11.*

PROFESSOR ILLINGWORTH

**SS3. Oral Interpretation of Literature.** The purpose of this course is to develop ability to read aloud in a simple, intelligent, and expressive manner. The materials will be drawn chiefly from prose and poetry of assured literary value, with a view of gaining through oral interpretation an added appreciation of literature. Elementary voice training. A study of the best textbooks and readings in poetry, drama, and short story are a part of the course. This course will in no way cover the same ground as the course in public speaking. The two courses taken in the same session will be equivalent to the elementary course offered by most colleges in public speaking.

*Daily, except Saturday, at 12.*

PROFESSOR ILLINGWORTH

*Note.* During the summer session, Mr. Illingworth will give a series of Lecture-Recitals at 7:30 on Tuesday evenings. These are open to all who are interested. The series includes: (1) Tendencies in Modern Poetry; (2) American Dialect Verse; (3) Our Reading Public; (4) Eugene O'Neill, the Hope of American Drama; (5) Barrie, the Story of a Genius.

Members of the Summer School who are interested in dramatics are requested to confer with Mr. Illingworth. One or two performances will be given.

## FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these lan-



guages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work, or for a reading knowledge of scientific works. Further information will be given on request.

## FIELD TRIPS IN GEOGRAPHY AND HISTORY

The field trips of 1931 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors. Field trips by motor coach have been conducted each summer during two or three weeks following the summer session. In 1927 President Atwood conducted the first European Field Trip. In 1928 the First Transcontinental Field Trip was conducted during the summer session; the Fourth Transcontinental Field Trip is planned for 1931. The First Caribbean Field Trip is announced for 1931. The field trips of 1931 have been organized to continue some of the offerings of established interest, and to introduce other trips of special interest to teachers and students of geography and history.

**\*SS202. Caribbean Field Trip.** The members of the Caribbean Field Trip will assemble in New York City on Friday, July 3, and sail on Saturday, July 4, returning to New York City on Tuesday, August 11. The route includes a sea voyage of 5,000 miles and land trips at Havana, Canal Zone, Port Limon, three ports in Colombia, Kingston, and Santiago. This trip is in charge of Dr. Clarence F. Jones, of the Clark University Geography Staff.

The range of prices is as follows: \$540, \$570, \$585, \$620. The difference in price is on account of difference in location of stateroom and whether two persons or three persons occupy one stateroom. All other accommodations are exactly the same. These rates include all necessary expense except tips. An additional allowance of about \$100 is desirable for personal expenses and souvenirs.

Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$50. This initial payment may be made by check which will be held in a safety deposit box, without deposit in the bank, until May 1, 1931. The balance is due and payable on or before June 1. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School.

Six semester hours of credit will be given for satisfactory field work and notes. Two additional semester hours of credit may be earned by special study and report on a subject approved by the instructor. This special report is due on or before January 15, 1932.

If the credit is to be used at some other institution than Clark University, arrangements should be made in advance.

*Write at once for a bulletin describing the Caribbean Field Trip in detail with complete itinerary. Address Clark University Summer School or Dr. Clarence F. Jones, Clark University, Worcester, Massachusetts.*

**\*SS204. Transcontinental Field Trip.** The members of the Transcontinental Field Trip will assemble at Clark University, Friday, July 3, 1931, at 10 A. M. Those who wish to come earlier for reading and study will have full privileges of the library and the map collections in the geography workroom. This trip is in charge of Dr. Langdon White, Professor of Geography, Randolph-Macon College, Lynchburg, Virginia. Dr. White conducted the Transcontinental Field Trip of 1930.

The party will leave Worcester on Saturday, July 4, and proceed by railroad to Vancouver, British Columbia, making stops for special study at Niagara Falls, Chicago, Banff, and Lake Louise. From Vancouver the trip continues by Canadian Pacific steamer to Alaska, and returns to Seattle. The journey from Seattle to Los Angeles by motor coach leads to Mount Rainier, Crater Lake, and Yosemite National Park. The return journey from Los Angeles to New York is made by Panama Pacific steamer with shore trips at Panama and Havana. The trip ends at New York City August 17.

The cost of the trip includes tuition, transportation from Worcester to New York, hotel and meals. Price of trip with lower berth on train \$750, with upper berth on train \$744, with two persons occupying lower berth on train \$734.

Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$50. This initial payment may be made by check which will be held in a safety deposit box, without deposit in the bank, until May 1, 1931. The balance is due and payable on or before June 1. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School.

Six semester hours of credit will be given, for satisfactory field work and notes. Two additional semester hours of credit may be earned by special study and report on a subject approved by the instructor. This special report is due on or before January 15, 1932. If the credit is to be used at some other institution than Clark University, arrangements should be made in advance.

*Write at once for a bulletin describing the Transcontinental Field Trip in detail. Address Clark University Summer School, Worcester, Massachusetts, or Dr. Langdon White, Randolph-Macon College, Lynchburg, Virginia.*

## FIELD TRIPS FOLLOWING THE SUMMER SESSION

Three field trips are offered immediately following the Summer School. One will be of 16 days duration, one of 14 days, and one of 21 days. For the trips of 14 days and 16 days duration a credit of two semester hours will be granted for satisfactory written report of the field observations. An additional hour of credit will be granted for the preparation of a special report on some phase of the field work acceptable to the instructor. This report is due on or before January 15, 1932. For the field trip of 21 days duration a credit of three semester hours will be granted for satisfactory written report of the field observations, and an additional hour of credit for a satisfactory special report submitted by January 15, 1932.

*Reservations should be made early. Tentative reservations will be made without payment, and definite enrollment will follow on payment of \$15. The balance should be paid on or before July 15. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School. Enrollment checks of \$15 will not be deposited for collection until July 1, and checks for the balance will not be deposited until August 1.*

**Middle States, Maryland and Virginia Field Trip.** Friday, August 7, to Saturday, August 22, 16 days. This course affords an opportunity to study by direct observation and at very low cost the history and geography of the Atlantic coastal region and eastern highlands from the Connecticut to the James, including portions of nine states. American history teachers who combine this course with History SS11 and History SS12 will have a unique opportunity to do a unified piece of field work covering the Colonial and Revolutionary periods and the eastern aspects of the Civil War. Combination of the three courses may yield a maximum of six credits. This course may be taken alone without credit as a vacation tour, replete with historic, literary and scenic interest, or two or three credits may be earned, depending upon the work done. The region covered includes most of the important areas of original settlement, the outstanding battlefields and other scenes of the Revolution and Civil War, the national and confederate capitals, the homes of numerous famous Americans and such interesting geographic regions as the Hudson and Delaware Valleys, the Metropolitan areas of New York and Philadelphia, tide-water Virginia, the Blue Ridge, the Shenandoah Valley and the Pennsylvania farm lands.

The route: Worcester, Mohawk Trail, Albany, Catskills, West Point, Tarrytown, Yonkers, New York City, Princeton, Washington's Crossing, Trenton, Philadelphia, Valley Forge, Chadds Ford, Baltimore, Annapolis, Washington, Arlington, Bull Run, Alexan-



dria, Mt. Vernon, Fredericksburg, Wakefield, Stratford, Rappahannock, Yorktown, Williamsburg, Jamestown, Richmond, Charlottesville, Lynchburg, Natural Bridge, Staunton, Endless Caverns, Winchester, Charlestown, Harper's Ferry, Frederick, Gettysburg, York, Lancaster, Ephrata, Reading, Allentown, Bethlehem, Easton, Delaware Water Gap, Bear Mountain Bridge, Danbury, Hartford, Worcester.

The total cost, including all expenses except personal purchases, fees, and tips, will be \$150. For reservations and method of payment see the introductory paragraph under "Field Trips Following the Summer School," page 24. The trip will be in charge of Edgar C. Bye, Instructor in History in the Clark University Summer School and in the State Teachers College at Montclair, New Jersey.

*Send to Clark University Summer School or to the instructor for printed circular with day by day itinerary.*

**Canadian Field Trip for New York State Teachers.** Saturday, August 8, to Friday, August 21, 14 days. The enthusiastic interest of the members of the 1929 and 1930 field trips conducted by Clark University Summer School for New York State teachers assures interest in the announcement for another trip in 1931.

The itinerary includes Oswego, Montreal, Quebec, Fredericton, Bay of Fundy, Evangeline's country, Moncton, St. John, Bangor, St. Johnsbury, Burlington, Lake Champlain, the Adirondacks, Utica.

This trip is in charge of Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. The party will leave the Oswego Normal School at 8 A. M., Saturday, August 8, and return to Oswego, Friday, August 21.

The cost of this trip is \$15 for tuition and \$60 for transportation, both payable to Clark University. Each member of the party will pay his own expenses for room and meals. Hotel reservations will be made for the party in advance. The total cost of the trip should not exceed \$150.

For reservations and method of payment see the introductory paragraph under "Field Trips Following the Summer School," page 24.

*Send to Clark University Summer School or to the instructor for printed circular with day by day itinerary.*

**Maritime Canada—Quebec—Montreal Field Trip.** Saturday, August 8, to Friday, August 28, 21 days. This trip is similar to the one conducted in 1930 but is more intensive and more extensive. The Maritime Provinces will be given a more detailed study and Montreal will be included in the itinerary. The route of 2,500

miles leads through scenes of great geographic and historic interest in five New England states and three Canadian provinces. The famous Reversing Falls at St. John, the tides on the Bay of Fundy, the fishing villages of Nova Scotia, the oldest town in North America, the "Land of Evangeline," Halifax, French Canada, Quebec, Montreal, the Lake Champlain Lowland, the Green Mountains and the region of the Mohawk Trail are some of the features selected for special study. The itinerary includes New Britain, Conn., Worcester, Lowell, Lawrence and Haverhill in Massachusetts; Portland, Rockland, Bangor and Calais in Maine; St. John, Halifax, Quebec and Montreal in Canada; Ausable Chasm, New York; Burlington, Rutland and Bennington in Vermont; Williamstown, Greenfield, Northampton and Springfield in Massachusetts and Hartford, Connecticut.

This trip is in charge of Professor George F. Howe, Head of the Geography Department, State Normal School, New Britain, Connecticut. The party will leave the New Britain Normal School at 8 A. M., Saturday, August 8, and return to New Britain, Friday, August 28.

The cost of this trip is \$20 for tuition and \$100 for transportation. Payment of tuition and transportation is made to Clark University. A payment of \$20 is made at time of enrollment. The balance, \$100, is payable on or before July 15. Reservation, without payment, will be made on request, and definite enrollment will follow on payment of \$20. Make checks payable to Douglas C. Ridgley, Director Clark University Summer School. Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals will probably not exceed \$80.

## PRELIMINARY ANNOUNCEMENT OF FIELD TRIP THROUGH NORTHERN EUROPE, 1932

Dr. W. Elmer Ekblaw, who spent six months in 1930 in Northern and Eastern Europe, plans an eight weeks' field trip through Northern Europe, in the summer of 1932 for a study of the lands about the North and Baltic Seas. Leaving America the latter part of June the party will study Ireland and Britain, Scandinavia, the eastern Baltic countries, Holland, Belgium, and parts of Germany and France. If time permits the party will also visit Poland and Czechoslovakia.

While the purpose of the trip is essentially geographical, and the interest of the party throughout focuses upon the geographic interpretation of the life of the peoples of the lands traversed, the natural history and the places of literary and historical significance find an important place in the plans.

All interested should correspond as soon as possible with the Director of the Clark University Summer School or with Dr. Ekblaw for details of plan and itinerary, preparation, and reservations.

CREDIT FOR FIELD TRIPS

Field trips of two weeks duration are designed to cover the equivalent of two semester hours of credit; the trip of three weeks duration, three semester hours of credit; the Transcontinental Trip, and the Caribbean Trip, each six semester hours of credit. These trips are so credited when applied toward a degree in Clark University. This credit is increased by one hour for the field courses of two weeks or three weeks duration, and by two hours for the Transcontinental Field Trip and the Caribbean Field Trip, by the preparation of an acceptable geographic study of some phase of the field studies in form and extent satisfactory to the instructor. This written report is due on or before January 15, 1932.

The work for credit involves the preparation of the field notes under the direction of the instructor, and such preliminary reading and study as may be outlined by the instructor. A certificate, with a statement of the course and grade received, will be furnished soon after the instructor's report is filed with the Registrar.

The field trips are a part of the regular Summer School program, and give the credits indicated, but do not count as a part of the minimum residence credit of thirty semester hours for the Bachelor of Education degree.

DEGREES DIPLOMA OR OTHER CERTIFICATES OF LIBERAL OR PROFESSIONAL TRAINING WITH SOURCES AND DATES .....

TENTATIVE LIST OF SUMMER SCHOOL COURSES WHICH APPLICANT DESIRES TO ENTER

(Describe by Subject and Number, i.e., Geography 101)

*If you are not a graduate of a college, technical, normal or secondary school, not a college student, and not a teacher, send a letter with this application stating your qualifications for the work which you desire to do.*



# CLASSROOM AIDS FOR TEACHERS OF GEOGRAPHY

Clark University, through its School of Geography, wishes to extend to teachers in service facilities for obtaining, at nominal cost, valuable aids for making geography real and concrete to pupils. This service is provided by the Home Study Department and places within reach of every teacher and school three kinds of classroom aids for the teaching of geography: (1) Illustrated pamphlets; (2) Museum exhibits; (3) Publications of special interest to geography teachers.

## ILLUSTRATED PAMPHLETS FOR CLASSROOM USE

Through the generous co-operation of government bureaus of the United States and foreign countries, tourist bureaus, transportation companies, manufacturers, importers, and other business houses at home and abroad, Clark University has assembled illustrated pamphlets, booklets, maps, charts and posters of great variety, and of immediate value to the classroom teacher. A nominal charge is made to cover the cost of handling and shipping this material. A package of thirty or more selected pamphlets will be sent to any address, postpaid, for \$1.00. A larger assortment will be sent for \$2.00, \$3.00, \$4.00, or \$5.00. Each dollar after the first will secure a larger supply than the first dollar, because of decreased cost in packing and in parcel post charges. A \$5.00 package will probably contain more than 200 pieces of illustrated material. A \$10 package will contain over 400 pieces of literature, and will include many publications secured by extensive international correspondence.

Due consideration will be given to requests for material covering certain phases of geography, such as:

Home Geography	Transportation	Europe
Food	Manufacture	Asia
Clothing	United States	Africa
Shelter	South America	Australia

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Please do not write above this line

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*To the Registrar of Clark University:*

I wish to be enrolled as a student in the Summer School for 1931, and enclose with this the Registration fee of two dollars.

Name .....

Address .....

Date .....

Occupation during the past academic year .....

If teaching or studying, where? .....

(OVER)

The Home Study Department of Clark University has become a center of exchange for more than a thousand different kinds of illustrated literature. Numerous publications have been obtained in generous quantities that could not be obtained by the individual teacher. This generous co-operation from all parts of the world is growing.

Address all communications to  
Clark University, Home Study Department  
Worcester, Massachusetts

MUSEUM EXHIBITS FOR CLASSROOM USE

Exhibits of important products will be furnished at cost of preparation and transportation. Manufacturers, producers, and importers are generous in supplying materials in bulk. These are prepared in convenient form for examination and study. The specimens are placed in glass tubes, sealed, and labeled. Most of the exhibits are accompanied by appropriate literature.

The tubes may be exhibited on a desk or table in the schoolroom or they may be passed among the pupils for careful examination under the supervision of the teacher. The tubes containing the specimens may be mounted by the teacher and pupils on wood, composition board, beaver board, or other suitable material, with maps and pictures pertaining to the specimens, thus making an attractive exhibit easily and effectively displayed. Instructions for mounting will be sent with each order. The home study course, "Visual Aids in Teaching," is available for teachers who wish specific direction in the use of materials for visual instruction.

The nominal charge made for these exhibits is necessary to cover the cost of securing the materials, preparing the exhibits for classroom use, packing them for shipment, and for transportation charges. The order blank may be used in ordering these museum materials.

Order Blank for Geographic Museum Exhibits

CLARK UNIVERSITY,  
HOME STUDY DEPARTMENT,  
WORCESTER, MASS.

NOTE. If the order is for \$5.00 or more, deduct 10 per cent; if \$20.00 or more, deduct 20 per cent. If the order is for the entire set of exhibits, deduct 25 per cent. The net discount price of the entire set of 34 exhibits, containing 284 individual specimens, is \$21.94. All shipments are sent postpaid.

Please mark the package as follows:

Name .....  
Street and Number .....  
City and State .....  
.....

Date .....

## Museum Exhibits Now Available

Asbestos	1 sample with literature	\$ .20
Asphalt	2 samples with literature	.30
Bakelite	1 sample	.05
Borax	4 samples	.40
Botanical Drugs	12 samples	1.20
Carpets	3 samples with literature	.30
Celluloid	11 samples with literature	.55
Cereals	17 samples with literature	2.00
Cocoa	4 samples with literature	.50
Coffee	6 samples with literature	.70
Cotton	5 samples	.60
Dyewoods	6 samples	.60
Fertilizers	12 samples with literature	1.30
Flour	9 samples	.90
Ford Products	8 samples	.80
Wood by-products		
Fuels	7 samples	.80
Glue	5 samples with literature	.50
Minerals	10 samples	1.50
Naval Stores	16 samples with literature	1.00
(pine tree products)		
Portland Cement	8 samples with literature	.80
Rattan	3 samples	.15
Rubber	6 samples	.35
Seeds	11 samples	1.20
Shellac	4 samples with literature	.50
Soap	18 samples with literature	1.80
Soils	7 samples with literature	.80
Spices	29 samples with literature	3.00
Starches	12 samples	1.20
Sulphur	3 samples with literature	.40
Tapioca	4 samples	.40
Tea	8 samples with literature	1.00
Wire Netting	3 samples with literature	.15
Woods	14 samples with pictures of trees	1.80
Wool	15 samples	1.50

DISCOUNTS: If an order amounts to \$5.00 or more, deduct 10 per cent; if \$20.00 or more, deduct 20 per cent. If the entire set of exhibits is ordered at one time, deduct 25 per cent. Orders from individuals should be accompanied by full payment in any convenient form. Orders from Boards of Education may be made according to their usual plans for purchasing school supplies.

Correspondence is invited. Address: Clark University, Home Study Department, Worcester, Massachusetts.

Please send the exhibits checked in the following list:

....Asbestos	\$ .20	....Minerals	\$1.50
....Asphalt	.30	....Naval Stores	1.00
....Bakelite	.05	....Portland Cement	.80
....Borax	.40	....Rattan	.15
....Botanical Drugs	1.20	....Rubber	.35
....Carpets	.30	....Seeds	1.20
....Celluloid	.55	....Shellac	.50
....Cereals	2.00	....Soap	1.80
....Cocoa	.50	....Soils	.80
....Coffee	.70	....Spices	3.00
....Cotton	.60	....Starches	1.20
....Dyewoods	.60	....Sulphur	.40
....Fertilizers	1.30	....Tapioca	.40
....Flour	.90	....Tea	1.00
....Ford Products	.80	....Wire Netting	.15
....Fuels	.80	....Woods	1.80
....Glue	.50	....Wool	1.50

(OVER)



Clark University has published three pamphlets of special value to teachers of geography. These are: (1) A bibliography of the pedagogy of geography; (2) A bibliography of reference reading in geography; (3) a monograph on place geography. They are here briefly described.

1. Frederick K. Branom: *A Bibliography of Recent Literature on the Teaching of Geography*. Sixth Revised Edition, 1930. Price 25 cents. More than 600 references to books and magazine articles are classified under 22 topical headings. You can select readings of immediate value in your teaching problems if you have this bibliography.

2. Ella B. Knight: *A Bibliography of Geographical Literature for Elementary Grades and Junior High School*. Second Revised Edition, 1928. Price 25 cents. More than 500 choice books are listed with annotations. You can select supplementary reading in geography with assurance, if you have this bibliography.

3. Douglas C. Ridgley: *A Study of Children's Learning about Places*. Price 80 cents. A monograph of 142 pages with 30 graphs. A discussion of place geography with practical suggestions for the study of places in the regular geography work. A classified list of 1,200 important places enables teacher and pupils to center attention on the places worthy of special study.

*These three publications will be sent to any address, postpaid, for \$1.00, in a single order.*

4. Edgar C. Bye: *A Bibliography on the Teaching of the Social Studies*. First edition, 1929. Price 25 cents. More than 800 references to books and magazine articles are carefully classified for ready use of teachers and students of history and civics.

*These four publications will be sent to any address, postpaid, for \$1.20, in a single order.*

Address: Clark University, Home Study Department,  
Worcester, Massachusetts

#### A MAGAZINE FOR GEOGRAPHY TEACHERS

*Economic Geography* is a quarterly journal published by Clark University. Its articles cover many phases of industry and commerce. It is a most valuable reference for classes in geography in any school, but it is especially adapted to the needs of high school, normal school, college, and university.

Subscription rates are \$5.00 per year. For further information, address:

*Economic Geography*, Clark University,  
Worcester, Massachusetts

### Order Blank for Home Study Lessons and Other Items

CLARK UNIVERSITY,  
HOME STUDY DEPARTMENT,  
WORCESTER, MASSACHUSETTS.

Please send the explanatory statement and sample lessons of the Home Study Course entitled:

Title of Course .....

Name .....

Address .....

Position .....

## A MAGAZINE FOR SCHOOL AND HOME

The Home Geographic Society has its headquarters at Clark University. Its magazine, the *Home Geographic Monthly*, is carefully edited for children and adapted to their needs, but it is so rich in interesting information and educational value that everyone, child or adult, will find it readable and engrossing. Every issue of the magazine will contain a wealth of material for home entertainment and school instruction. Volume 1, Number 1, is dated January, 1931. Complete files are obtainable, if membership dues are sent promptly.

Size of page  $8\frac{1}{2} \times 11\frac{1}{2}$  inches; cover picture in four colors; large, clear type; 48 pages of interesting reading matter; more than 60 pictures illustrating the text; an ideal magazine for school and home.

Contents of the first issue, January, 1931:

The Magic of Wings	<i>Fitzhugh Green</i>
The Stone Age in the Desert	<i>Ellsworth Huntington</i>
The Wonderful Walnut Tree	<i>George N. Lamb</i>
Floods in a Nutshell	<i>Charles Fitzhugh Talman</i>
Promontory Towns of the Mediterranean	<i>Ellen Churchill Semple</i>
Holland, A Lovely Lowland	<i>Samuel Van Valkenburg</i>
The Marvelous Story of Mt. Monadnock	<i>Wallace W. Atwood</i>

The price, \$3.00 a year, includes membership in the Home Geographic Society and a year's subscription to the *Home Geographic Monthly*, twelve issues. State whether your subscription shall date from January, 1931. Make checks payable to Home Geographic Society. For further information, address

Home Geographic Society  
Clark University  
Worcester, Massachusetts

You may also send the other items checked on this form:

- ☐ Home Study Bulletin. No charge.
- ☐ Summer School Bulletin for 1930. No charge.
- ☐ Annual Catalogue of Clark University. No charge.
- ☐ Statement of the requirements for the degree Bachelor of Education at Clark University. No charge.
- ☐ Further information about the Quarterly journal *Economic Geography*. No charge.
- ☐ Further information about the Home Geographic Society and the *Home Geographic Monthly*. No charge.
- ☐ Information about membership in the National Council of Geography Teachers and the *Journal of Geography*. No charge.
- ☐ Enclosed find \$1.00 for selected printed material for teaching geography.
- ☐ Enclosed find 25c for Branom's Bibliography.
- ☐ Enclosed find 25c for Knight's Bibliography.
- ☐ Enclosed find 80c for Ridgley's Monograph on Place Geography.
- ☐ Enclosed find \$1.00 for the three foregoing publications.
- ☐ Enclosed find 25c for Bye's Bibliography.
- ☐ Enclosed find \$1.20 for the four publications.
- ☐ Enclosed find \$..... for as large an assortment of selected material as this amount will pay for.

*Clark University*  
*personal copy*

# Clark University Bulletin

Catalogue Number



Worcester, Massachusetts

March, 1931





# Clark University Bulletin

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NUMBER 83

MARCH, 1931

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## Catalogue Number

*The Catalogue is a record for the current academic year, 1930-'31. Such announcements for the year 1931-'32 as can be made at the time of publication are included.*

The Bulletin is published in January, February, March, April, May, June, October, November, and December

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Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

## HISTORICAL NOTE

The University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagreness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of a collegiate Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.



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1930

## JULY

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# CALENDAR

The academic year begins on the fourth Thursday in September. Commencement Day is the thirty-eighth Monday following (the second or third Monday in June).

The first semester ends on the Saturday before the twentieth Monday and the second semester begins on the twentieth Monday of the academic year.

## 1930

Sept. 25.	Thursday	Academic year began. Registration day.
Oct. 12.	Sunday	Columbus Day. Mon., Oct. 13, a holiday.
Nov. 22.	Saturday	Mid-semester reports.
Nov. 26.	Wednesday	Thanksgiving recess began at 1 P. M.
Dec. 1.	Monday	Thanksgiving recess ended at 8 A. M.
Dec. 20.	Saturday	Christmas recess began at 1 P. M.

## 1931

Jan. 5.	Monday	Christmas recess ended at 8. A. M.
Jan. 28.	Wednesday	Semester examinations began at 2 P. M. Registration day for second semester.
Feb. 1.	Sunday	Founder's Day.
Feb. 7.	Saturday	First semester ended.
Feb. 9.	Monday	Second semester began.
Feb. 22.	Sunday	Washington's Birthday. Mon., Feb. 23, a holiday.
Feb. 28.	Saturday	Last day for receiving applications for graduate scholarships and fellowships for 1931-32.
Apr. 4.	Saturday	Mid-semester reports.
Apr. 18.	Saturday	Spring recess begins at 1 P. M.
Apr. 27.	Monday	Spring recess ends at 8 A. M.
May 9.	Saturday	Sub-Freshman Day.
May 30.	Saturday	Memorial Day. A holiday.
June 3.	Wednesday	Semester examinations begin at 2 P. M.
June 11.	Thursday	Last day of semester examinations.
June 12.	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Secretary of the Graduate Board at 9 A. M.
June 15.	Monday	Commencement Day.
June 29.	Monday	Summer School opens. Registration day.
July 3.	Friday	Last day for payment of Summer School tuition.
Aug. 6.	Thursday	Final Assembly of the Summer School at 8 P. M. Conferring of degrees.



CLARK UNIVERSITY  
WORCESTER, MASSACHUSETTS

NOTICE OF CHANGE IN CALENDAR FOR  
THE ACADEMIC YEAR 1931-32

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The academic year will begin **Tuesday, September 22.**

Christmas recess will extend from 1 P.M., Saturday, December 19, to 8 A.M., Monday, January 4.

The second semester will begin Monday, February 1.

The spring recess will extend from 1 P.M., Saturday, April 2, to 8 A.M., Monday, April 11.

Commencement Day will be Monday, June 6.

College exercises will be suspended on Thanksgiving Day, November 26, Washington's Birthday, February 22, and Memorial Day, May 30. College exercises will *not* be suspended on Columbus Day, Armistice Day, the Friday and Saturday following Thanksgiving, or Patriots' Day.

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Commencement Day for 1931 will be Monday, June 8.

Aug. 7.	Friday	Summer School closes.
Sept. 24.	Thursday	Academic year begins. Registration day.
Oct. 3.	Saturday	Last day for payment of term bills. Last day for changes in undergraduate programs.
Oct. 12.	Monday	Columbus Day. A holiday.
Oct. 31.	Saturday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June, 1932.
Nov. 21.	Saturday	Mid-semester reports.
Nov. 25.	Wednesday	Thanksgiving recess begins at 1 P. M.
Nov. 30.	Monday	Thanksgiving recess ends at 8 A. M.
Dec. 19.	Saturday	Christmas recess begins at 1 P. M.
1932		
Jan. 4.	Monday	Christmas recess ends at 8 A. M.
Jan. 27.	Wednesday	Semester examinations begin at 2 P. M. Registration day for second semester.
Feb. 1.	Monday	Founder's Day.
Feb. 6.	Saturday	End of first semester.
		Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 8.	Monday	Second semester begins.
Feb. 13.	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1932.
Feb. 17.	Wednesday	Last day for payment of term bills.
Feb. 22.	Monday	Washington's Birthday. A holiday.
Feb. 29.	Monday	Last day for receiving applications for graduate scholarships and fellowships for 1932-33.
Apr. 2.	Saturday	Mid-semester reports.
Apr. 10.	Saturday	Spring recess begins at 1 P. M.
Apr. 25.	Monday	Spring recess ends at 8 A. M.
May 14.	Saturday	Sub-Freshman Day.
May 30.	Monday	Memorial Day. A holiday.
June 1.	Wednesday	Semester examinations begin at 2 P. M.
June 9.	Thursday	Last day of semester examinations.
June 10.	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Secretary of the Graduate Board at 9 A. M.
June 13.	Monday	Commencement Day.



## BOARD OF TRUSTEES

FRANCIS H. DEWEY (1904)	Vice President and Treasurer Worcester, Mass.
HERBERT PARKER (1907)	South Lancaster, Mass.
ARTHUR P. RUGG (1910)	Worcester, Mass.
CHARLES H. THURBER (1913), President	Boston, Mass.
ALFRED AIKEN (1919)	New York City
GEORGE H. MIRICK (1920), Secretary	Worcester, Mass.
FREDERICK B. WASHBURN (1925)	Worcester, Mass.
ALEXANDER H. BULLOCK (1926)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

## ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. ATWOOD
Acting Librarian	EDITH M. BAKER
Dean of the College	H. P. LITTLE
Director of the Summer School	D. C. RIDGLEY
Director of Extension Courses	P. H. CHURCHMAN
Director of the Home Study Department	D. C. RIDGLEY
Registrar	C. E. MELVILLE
Bursar	FLORENCE CHANDLER

## UNIVERSITY STAFF

For Summer School Faculty see pages 92 and 93

WALLACE WALTER ATWOOD, PH.D. 160 Woodland St.  
President, 1920-.

Professor of Physical and Regional Geography. Director of the Graduate School of Geography. Editor, *Economic Geography*.

B.S., University of Chicago, 1897; Fellow, Assistant, and Associate, 1899-1903; Ph.D., 1903; Instructor and Assistant Professor of Physiography and General Geology, 1903-10; Associate Professor, 1910-13. Instructor, Lewis Institute, Chicago, 1897-99. Instructor, Chicago Institute, 1900-01. Professor of Physiography, Harvard University, 1913-20.

Geologist, U. S. Geological Survey. Fellow, American Academy of Arts and Sciences. Member, Geological Society of America, American Antiquarian Society, Chicago Academy of Sciences and the Association of American Geographers. President National Council of Geography Teachers, 1920-21. Foreign member, Swedish Anthropological and Geographical Society, Honorary Senator, University of Breslau. Member, National Parks Advisory Board, President National Parks Association, 1929.

LOUIS N. WILSON, LITT.D. 11 Shirley St.  
Librarian 1889-1929. Librarian Emeritus

HENRY TABER, PH.D. 2 Pleasant Place  
Professor of Mathematics, 1903-21. Professor Emeritus.

WILLIAM HENRY BURNHAM, PH.D. Bancroft Hotel  
Professor of Education and School Hygiene, 1906-26.  
Professor Emeritus.

BENJAMIN SHORES MERIGOLD, PH.D. 17 Charlotte St.  
Professor of Chemistry. Director of the Chemical Laboratories.

Instructor in Chemistry, 1905-12, 1916-20; Professor, 1920.

Assistant Professor of Chemistry, Clark College, 1903-08; Professor, 1908-20.

A.B., Harvard University, 1896; Assistant in Chemistry, 1896-1900; A.M., 1897; Ph.D., 1901. Instructor in Chemistry, Worcester Polytechnic Institute, 1900-03.

FRANK BLAIR WILLIAMS, PH.D.

24 Loudon St.

Professor of Mathematics.

Scholar in Mathematics, 1897-98; Fellow, 1898-1900; Ph.D., 1900; Instructor, 1910-20; Professor, 1920.

Assistant Professor of Mathematics, Clark College, 1907-08; Professor, 1908-20.

C.E., University of Missouri, 1890; M.S., 1893; Teaching Fellow, 1892-93. Engineering Work, United States Government Surveys, 1890-92 and 1894; U. S. Asst. Engineer, 1895-97. Assistant Professor of Engineering, Union College, 1900-04; Professor of Engineering Mathematics, 1904-07.

GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 21 Downing St.

Professor of History and International Relations.

Instructor in History, 1905-11; Professor, 1911.

Instructor, Clark College, 1903-04; Assistant Professor, 1904-09; Professor, 1909-20.

A.B., Wesleyan University, 1893; L.H.D., 1923. Graduate student, Johns Hopkins University, 1893-94; Harvard University, 1898-1901; A. M., 1900; Parker Fellow, 1901-02; Ph.D., 1903. Student, Universities of Berlin, Leipzig, and Oxford, 1901-03. L.H.D., Williams College, 1930. Member of the Council of the American Antiquarian Society. Member of Technical Staff, American Delegation, Conference on Limitation of Armament, Washington, 1921-22. Visiting Carnegie Professor of International Relations to Universities in Japan, Australia and New Zealand, 1927-28.

CHARLES BREWSTER RANDOLPH, PH.D

10 Otsego Rd.

Professor of German.

Professor of German, 1920. Secretary of the Summer School, 1921. Director of the Summer School, 1921-24.

Instructor in Greek, Clark College, 1903-04; Instructor in Greek and Latin, 1904-05; Assistant Professor, 1905-10; Professor of Latin, 1910-18; Professor of Latin and German, 1918-20.

A.B., Wabash College, 1896. Graduate Student, Harvard University, 1901-03; A.M., 1902; Ph.D., 1905. Instructor in Greek and Latin, University of Illinois Preparatory School, 1897-1900. Student, University of Halle, 1900-01.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.  
Professor of Romance Languages, 1920-.

Assistant Professor of Romance Languages, Clark College, 1908-11; Professor, 1911-20.

A.B., Princeton University, 1896; A.M., 1903; Instructor in French, 1900-04. Master, Chestnut Hill Academy, Philadelphia, 1897-99. Student, Universities of Paris and Grenoble, 1899-1900, 1903-04. Instructor in French and Spanish, United States Naval Academy, 1904-05. Graduate Student, Harvard University, 1905-08; Instructor in Romance Languages, 1906-08; Ph.D., 1908. Visiting Lecturer in the University of Chicago, Summer Quarter, 1912.

\*HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.  
Professor of Greek and Latin, 1920-.

Instructor in Greek and Latin, Clark College, 1904-06; Assistant Professor, 1906-10; Assistant Professor of Greek, 1910-12; Professor of Greek, 1912-15; Professor of the Greek Language and Literature, 1915-20.

A.B., Amherst College, 1898. Master in Greek, Mercersburg Academy (Pennsylvania), 1899-99. Master in Greek, Lake Forest Academy (Illinois), 1899-1900. Sub-master, Boston Latin School, 1900-01. Graduate Student, Harvard University, 1901-04; Ph.D., 1904; Assistant in Ancient History, Harvard University, and Lecturer in Greek History, Radcliffe College, 1903-04.

LEROY ALLSTON AMES, A.M. 166 Woodland St.  
Professor of English Literature, 1920-.

Instructor in English Literature, Clark College, 1908-10; Assistant Professor, 1910-15; Professor, 1915-20.

A.B., Harvard University, 1896; Assistant in English, 1899-1900; Graduate Student, 1899-1901; A.M., 1901. Instructor in English, Browne and Nichols School, Cambridge, Mass., 1896-99; Worcester English High School, 1901-06; Noble and Greenough School, Boston, Mass., 1906-07.

LORING HOLMES DODD, PH.D. 88 Sagamore Rd.  
Professor of Rhetoric, 1920-.

Instructor in English, Clark College, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20.

A.B., Dartmouth College, 1900. A.M., Columbia University, 1901. Ph.D., Yale University, 1907. Instructor, Choate School, Wallingford, Conn., 1901-02. Instructor in English, St. Paul's School, Garden City, N. Y., 1907-10.

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\*Absent on leave, 1930-31.



\*ROBERT HUTCHINS GODDARD, PH.D.

P. O. Box 976

Roswell, N. M.

Professor of Physics. Director of the Physical Laboratories.

Student in Physics, 1908-09; Fellow, 1909-11; A.M., 1910; Ph.D., 1911; Honorary Fellow, 1911-12, 1914-15; 1919-20; Instructor in Physics, 1916-18; Professor, 1920-.

Instructor in Physics, Clark College, 1914-15; Assistant Professor, 1915-19; Associate Professor, 1919-20.

B.S., Worcester Polytechnic Institute, 1908; Instructor in Physics, 1908-09. Research Instructor in Physics, Princeton University, 1912-13. Director of Research under U. S. Signal Corps, Worcester Polytechnic Institute and Mt. Wilson Observatory, 1918.

HOMER PAYSON LITTLE, PH.D.

156 Woodland St.

Professor of Geology and Dean of the College 1922-.

A.B., Williams College, 1906. Fellow, Johns Hopkins University, 1909-10; Ph.D., 1910. Instructor and later Professor of Geology, Colby College, 1910-20. Lecturer in Geology, Bangor Theological Seminary, 1913, 1916, 1919. U. S. Geological Survey, 1907. Maryland Geological Survey, 1908-10. Instructor, Johns Hopkins Summer School, 1921. Executive Secretary, Division of Geology and Geography of the National Research Council, 1920-22.

SAMUEL J. BRANDENBURG, PH.D.

173 Woodland St.

Professor of Economics and Sociology, 1923-.

A.B., Miami University, 1904. Graduate Student, University of Illinois, 1908-09, and University of Chicago, 1905-09; Ph.M., University of Chicago, 1909. Professor of Economics and Librarian, Miami University, 1909-20. Graduate Student and Assistant, University of Wisconsin, 1920-22; Ph.D., 1922. Professor of Economics and Sociology, University of Arkansas, 1922-23. Visiting Lecturer in Economics, University of Texas, Summer, 1923.

\*\*ALFRED LEWIS PINNEO DENNIS, PH.D.

Professor of Modern History.

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\*Absent on leave, 1930-31.

\*\*Absent on leave, from February, 1930. Died November 14, 1930.

CARL MURCHISON, PH.D., SC.D.

11 Downing St.

Professor of Psychology, 1923-.

Director of the Psychological Laboratories. Editor, *The Pedagogical Seminary and Journal of Genetic Psychology*; *Genetic Psychology Monographs*; *Journal of General Psychology*; *International University Series in Psychology*; Co-Editor, *Journal of Social Psychology*. Director of the Clark University Press.

A.B., Wake Forest College, 1909; Sc.D., 1930. Rumrill Fellow, Harvard University, 1909-10. Student, Rochester Theological Seminary, 1910-13; Student, Yale University, 1914-(Jan.) 16. Assistant Professor of Psychology, Miami University, 1916-19; on leave 1917-19; 1922-23; Associate Professor, 1919-23. Instructor, Army School for Military Psychology, Camp Greenleaf, Georgia, 1918. Psychological Examiner and Camp Morale Officer, Camp Sherman, Ohio; Assistant, 1918-19; Chief, 1919. Johnstone Scholar, Johns Hopkins University, 1922-23; Ph.D., 1923.

\*ELLEN CHURCHILL SEMPLE, A.M., LL.D.

Professor of Anthropogeography.

Lecturer in Anthropogeography, 1921-22; Acting Professor, 1922-23; Professor, 1923-.

A.B., Vassar College, 1882; A.M., 1891. LL.D., University of Kentucky, 1923. Student Leipzig University, 1891-92, 1895. Lecturer, University of Chicago between 1906-1923. Lecturer at School of Geography, Oxford University, England, summer terms 1912, and 1922. Ex-President, Association of American Geographers. Gold Medalist of American Geographical Society.

WILLIAM HOMER WARREN, PH.D.

166 Woodland St.

Professor of Organic Chemistry, 1925 (Feb.)-.

Assistant Professor of Chemistry, Clark College, 1911-12.

A.B., Harvard University, 1889; A.M., 1891; Ph.D., 1892. Instructor in Chemistry, Medical Department, Washington University, 1898-99; Assistant Professor, 1899-1900; Professor, 1900-11; Dean, 1908-11. Professor of Chemistry, Wheaton College, 1912-17. Captain, Q.M.C. and C.W.S., 1917-19. Research Chemist, 1919-25.

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\*Absent on leave, 1930-31.

\*WALTER SAMUEL HUNTER, PH.D. 171 Woodland St.  
G. Stanley Hall Professor of Genetic Psychology, 1925-  
Editor, *Psychological Abstracts*, *Psychological Index*.

A.B., University of Texas, 1910; Instructor in Philosophy, 1912-14; Adjunct Professor of Psychology, 1914-16. Ph.D., University of Chicago, 1912. Professor of Psychology, University of Kansas, 1916-25. Visiting Professor, Summer Session, Tulane University, 1915; State University of Iowa, 1920; University of Chicago, 1923, and 1930; University of California, Southern Branch, 1926; Northwestern University, 1927; First Lieutenant and Captain, Sanitary Corps, Psychology Division, U. S. A., September, 1917, to December, 1918; Visiting Professor, Harvard University, 1927-28 (first semester), 1928-29.

CHARLES FRANKLIN BROOKS, PH.D. 209 Lovell St  
Professor of Meteorology and Climatology.

Associate Professor, 1921-26; Professor, 1926-.

A.B., Harvard University, 1911 (as of 1912); A.M., 1912; Research Assistant, Blue Hill Observatory, 1912-13; Assistant in Meteorology and Physical Geography, 1913-14; Ph.D., 1914. Assistant in Physical Geography, Radcliffe, 1914. Assistant in Farm Management, United States Department of Agriculture, 1914-15, 1917-18; Collaborator, 1915-16. Instructor in Geography, Yale University, 1915-18. Instructor in Meteorology, United States Signal Service, 1918. Meteorologist, United States Weather Bureau, 1918-21.

Secretary (1919-), and Editor American Meteorological Society. Member, International Climatological Commission.

DOUGLAS CLAY RIDGLEY, PH.D. 166 Woodland  
Professor of Geography in Education.  
Director of the Summer School. Director of the Home Study Department.

Lecturer and Honorary Fellow in Geography, 1922-23; Special Lecturer and Fellow, 1923-24; Ph.D., 1925. Associate Professor, 1924-27; Professor, 1927-.

A.B., Indiana University, 1893. High School Instructor and Principal, Chicago Schools, 1895-1903. Professor of Geography and Head of Department of Geography, Illinois State Normal University, 1903-1922; on leave, 1921-22. Graduate Student, University of Chicago, 1921-22; M.S., 1922. Professor of Geography, First College Cruise around the World, 1926-27.

---

\*Absent on leave, second semester, 1930-31.

\*WALTER ELMER EKBLAW, PH.D. Box 431, No. Grafton, Mass.  
Professor of Geography.

Assistant Editor, *Economic Geography*.

Honorary Fellow in Geography, 1924-26; Ph.D., 1926; Associate Professor, 1926-28; Professor, 1928.

A.B., University of Illinois, 1910; Research Fellow, 1910-13; A.M., 1912. Botanist and Geologist, Crockerland Arctic Expedition, 1913-17. Research Associate, American Museum of Natural History, New York, and Research Scholar, University of Illinois, 1917-20. Field Geologist, 1920-1924.

JAMES BLAINE HEDGES, PH.D. 35 Richards St.  
Professor of American History.

Assistant Professor, 1924-26; Associate Professor, 1926-28; Professor, 1928.

A.B., University of Missouri, 1915; A.M., 1916. Fellow in History, Harvard University, 1916-17; Austin Teaching Fellow, 1919-20, 1922-23; Ph.D., 1924. Instructor in History, University of Oklahoma, 1920-21. Assistant Professor of History, Mills College, 1921-22. Secretary and Archivist, Harvard University Commission on Western History, 1923-24; Lecturer in History, Harvard University, 1929-30; Lecturer in American History, Brown University, 1930-31.

CLARENCE FIELDEN JONES, PH.D. 193 Lovell St.  
Professor of Economic Geography.

Associate Editor, *Economic Geography*.

Assistant Professor, 1923-26; Associate Professor, 1926-28; Professor, 1928.

B.S., University of Chicago, 1917; Assistant and Graduate Student, Department of Geography, 1919-23; Ph.D., 1923. Head of Department of Geography, State Normal School, St. Cloud, Minn., 1917-18. Instructor in Geography, Illinois State Normal University, Summer Session, 1920. Visiting Professor in Geography, Iowa State University, Summer Sessions, 1924 and 1925. Lecturer in Geography, Western Illinois State Teachers College, Summer Session, 1924. Visiting Professor of Geography, Wellesley College, first semester, 1930-31.

Member, Association of American Geographers.

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\*On leave, first semester, 1930-31.



JOHN PAUL NAFE, PH.D.

68 Woodland St.

Professor of Psychology.

Assistant Professor of Psychology, 1924-25; Associate Professor, 1925-28; Professor, 1928-.

A.B., University of Colorado, 1911. Assistant in Psychology, Cornell University, 1921-22; Instructor, 1922-24; Ph.D., 1924; Visiting Professor in Psychology, Harvard University, 1929-30 (first semester); Guggenheim Fellow, 1930; Visiting Professor, University of Colorado (summer session) 1924, 1925, 1926.

\*HUDSON HOAGLAND, PH.D.

150 Woodland St.

Professor of Physiology and Director of the Biological Laboratories, 1931-.

A.B., Columbia University, 1921. M.S., Massachusetts Institute of Technology, 1924. Ph.D., Harvard University, 1927; National Research Fellow, 1927-28; Research Associate, 1928-30; Parker Fellow, in residence at Cambridge University, England, 1930-31.

SIR GEORGE YOUNG, BT., M. V. O.

Visiting Professor of Modern History and Politics, September 25 to December 13, 1930.

Member of the British Diplomatic Service, 1896-1915; Professor of Portuguese, University of London, 1919-20; Lowell Institute Lecturer, 1929; Conference Leader, Institute of Politics, Williams-town, 1929; Visiting Professor, Williams College, 1930.

CHARLES BUNGAY FAWCETT, D.Sc.

Visiting Professor of Political Geography, first semester, 1930-31.

Scholar, University College of Nottingham, 1906-08. Graduate student, Oxford School of Geography, 1911-13. Lecturer in Geography, University College of Southampton, 1913-19. Lecturer in Summer School of Geography, Oxford, 1916; Director of Summer School of Geography for the Board of Education (England) 1919, 1920, and 1926. Reader in Geography, University of Leeds, 1919-28. Professor of Geography, University of London, and Head of the Department of Geography, University College, London, 1928-.

Member of the Joint Board of the Northern Universities (England), 1921-28. Councilor of the Royal Geographical Society, 1929-. Councilor of the Geographical Association, 1919-22, 1924-27, and 1930.

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\*Beginning September, 1931.

CAREY EYSTER MELVILLE, A.B.

16 Isabella St.

Associate Professor of Mathematics. Registrar.

Honorary Fellow in Mathematics, 1906-15; Associate Professor, 1920; University Registrar, 1922.

Assistant in Mathematics, Clark College, 1906-09; Instructor, 1909-10; Instructor in Mathematics and Physics, 1910-11; Assistant Professor, 1911-14; Assistant Professor of Mathematics, 1914-18; Associate Professor, 1918-20; Registrar, 1914-22.

A.B., Northwestern University, 1901; Teaching Fellow in Mathematics, 1901-02. Graduate Student, Johns Hopkins University, 1902-03. Instructor in Mathematics, Case School of Applied Science, 1903-06.

VERNON JONES, PH.D.

6 Ripley St.

Associate Professor of Educational Psychology, 1926-.

Principal of High School, 1919. A.B., and A.M., University of Virginia, 1920; Teacher of Educational Psychology, Summer Term, 1924; Principal of Schools, 1920-23; A.M., Columbia University, 1924; Associate in Education, 1925-26; Ph.D., 1926. Director of Research, Public Schools, Richmond, Virginia, 1924-25; Special Part-Time Lecturer, Teachers College, Columbia University, 1927-29.

\*JAMES ACKLEY MAXWELL, PH.D.

Associate Professor of Economics.

Instructor in Economics, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-.

A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927 (Feb.).

ARTHUR FLETCHER LUCAS, PH.D.

18 Wentworth St.

Associate Professor of Economics and Sociology.

Assistant Professor of Economics and Sociology, 1926-29. Associate Professor, 1929-.

A.B., Bates College, 1920. Instructor in Economics, Princeton University, 1920-22, 1924-26; Fellow in Economics, 1922-24; A.M., 1923; Ph.D., 1925; Professor of Economics, University of the South, Summer Quarter, 1928.

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\*Absent on leave, 1930-31.

DWIGHT ERWIN LEE, PH.D.

37 Clifton St.

Associate Professor of Modern European History.

Assistant Professor of Modern European History, 1927-30; Associate Professor 1930.

A.B., University of Rochester, 1921; A.M., 1922; Assistant in History, 1921-22; Instructor, 1922-24. Graduate Student, University of Michigan Summer School, 1922. Graduate Student, Harvard University, 1924-27; Francis Parkman Fellow, 1925-26; Bayard Cutting Travelling Fellow, 1926-27; Ph.D., 1928 (Feb.). Research in Paris, London, and Vienna, 1924, 1925, and 1926-27.

NORMAN EDWIN HIMES, A.M.

23 Freeland St.

Associate Professor of Economics and Sociology, 1930-31.

B.S., Harvard University, 1923; A.M., 1924; Robert Treat Paine Fellow in Social Science, 1923-25. Instructor in Economics and Sociology, Cornell College, Iowa, 1925-26. Fellow, Social Science Research Council, 1926-28. Instructor in Economics, Simmons College and Simmons School Social Work, 1928-1930.

Assistant Editor, Sociology Section, Social Science Abstracts, Summer 1929. Research consultant to National Committee on Maternal Health.

JESSE LUNT BULLOCK, A.M.

35 Downing St.

Assistant Professor of Chemistry, 1926-.

A.B., Harvard, 1914; Graduate Student and Assistant in Chemistry, 1914-15; A.M., 1928. Industrial Research, The Calco Chemical Company and the Diamond Match Company, 1915-22. Chief Chemist. The Granton Chemical Company, 1922-24. Consulting Chemist, 1924-26.

GEORGE ELISHA BAKER, A.M.

Estabrook Hall

Assistant Professor of English. Proctor, Estabrook Hall.

A.B., 1922; Assistant in English, 1924 (Feb.-June); Instructor 1925-27; Assistant Professor, 1927-.

Instructor in English, Dartmouth College, 1922-23. Instructor, Amherst, Mass., High School, 1923 (half year). Graduate Student, Harvard University, 1924-25; A.M., 1925. Student, Emerson College of Oratory, summer session, 1926.

HEINRICH MORANT BOSSHARD, PH.D. 12 Shirley St.

Assistant Professor of German, 1927-.

Ph.D., University of Zürich, Switzerland, 1919. Student, University of Grenoble, France, Summer Sessions, 1914 and 1916. M. Ed., Harvard University, 1921; Instructor in German, 1921-22, 1926-27. Assistant Professor of German, University of North Carolina, 1922-23. Study and Travel, 1923-24. Instructor, Odenwald schule, Oberhambach, Germany, 1924-26. Instructor, Harvard University, 1926-27.

DAVID POTTER, M.Sc. 766 Main St.

Assistant Professor of Biology.

Instructor in Biology, 1924-27; Assistant Professor, 1927-.

B.Sc., Massachusetts Agricultural College, 1916; Graduate Student and Assistant in Botany, 1921-23; M.Sc., 1923. Instructor in Biology, Albion College, 1923-24.

PERCY MARTIN ROOPE, PH.D. 36 Richards St.

Assistant Professor of Physics.

A.B., Clark College, 1920; Instructor in Physics, 1921-27; A.M., 1924; Honorary Fellow, 1924-25; Fellow, 1925-26; on leave, 1926-27; Ph.D., 1927; Assistant Professor, 1927.

Instructor in Physics, Kalamazoo College, 1920-21. Graduate Student, Massachusetts Institute of Technology, 1926-27.

PAUL WALBERT SHANKWEILER, A.M. 24 Loudon St.

Assistant Professor of Sociology, 1929-.

Ph.B., Muhlenberg College, 1919. A.M., Columbia University, 1921. Graduate, Union Theological Seminary, 1922. Instructor in New Trier High School, Winnetka, Illinois, 1923-25. Graduate student, Northwestern University, Summer Session, 1927. Assistant Professor of Sociology, Birmingham-Southern College, 1927-28. Teaching Fellow in Sociology, University of North Carolina, 1928-29.

EDWARD D. T. POUSLAND, A.B., *Élève Titulaire de l'École Pratique des Hautes Études, Université de Paris* 21 Fruit St.

Assistant Professor of Romance Languages, 1930-.

Certifié de l'Université de Poitiers, 1912; Correspondant, Correspondance Banque, Crédit Lyonnais, Siège Central, Paris, France, Summer, 1913; A.B., Harvard University, 1914; Director of Military French Instruction, to U. S. Army, 1917-1918; translations for the Mission Militaire Française, Boston, 1918; Instructor in French, Harvard University, 1918-1920; *Élève Titulaire de l'École Pratique des Hautes Études, Université de Paris*, 1921; Constructor of phonetic apparatus, Harvard Phonetic Laboratory, 1925.



RICHARD GUNDRY POINDEXTER

Instructor in Physics, 1930-.

A.B., University of the South, 1927; A.M., Harvard University, 1929.

T. P. CONWELL-EVANS, PH.D.

Visiting Lecturer of Modern History and Politics, January, 1931.

B.A., Oxford University, Ph.D., University of London. Has studied also at Geneva, Paris and Munich. Sometime secretary of the Balkan Committee, London. Recently secretary to the Minister of Agriculture. Joint author of "Oppressed People and the League of Nations." Author of "The League Council in Action," to be published soon by Oxford University Press.

RUTH E. BAUGH, PH.D.

Visiting Lecturer in Geography, first semester 1931-32.

CURTIS F. MARBUT, LL.D.

Special Lecturer in Geography.

ERWIN C. MILLER, M.D.

Special Lecturer in Biology.

RAYMOND ROYCE WILLOUGHBY, PH.D.

Research Associate in Psychology.

*14 Read St*

16 Columbus St.

GUY H. BURNHAM, A. M.

Cartographer, Graduate School of Geography.

19 Woodman Rd.

ERNEST RAYMOND WHITMAN

Director of Physical Education.

48 Downing St.

RALPH WARNER ELLIS, M.D.

Medical Director.

574 Main St.

FLORENCE CHANDLER

Bursar.

18 Downing St.

DEAN WINSLOW HANSCOM, A.B.

Director of the Musical Clubs.

Waban, Mass.

EUGENE C. BELKNAP

Curator, Department of Chemistry.

*(Died Mar 5, 1931)*

9½ Hancock St.

JOHN W. BOARDMAN

Superintendent of Buildings and Grounds.

15 Shirley St.

## EUGENE C. BELKNAP

Eugene C. Belknap, Curator in the Chemistry Department of Clark University during the past 15 years, died in Worcester on March 5th after a brief illness.

Mr. Belknap was widely known for his work in the use of industrial materials as an aid to Visual Education, his services as lecturer in this field being in constant demand. He brought to the fulfillment of the duties of his position at Clark originality of ideas together with unusual versatility and mechanical ingenuity. His advice was extensively sought in matters pertaining to stock room design and management, methods of laboratory ventilation and laboratory design.

With co-operation of the manufacturers, he was responsible for the introduction of the extensive use of asbestos lumber for laboratory flooring, desk tops, steam baths, ventilating flues and other uses.

His ingenuity in the display of exhibits of industrial products and processes in the Clark Chemistry laboratory attracted widespread attention, while his use of trade literature in connection with the usual methods of instruction in general chemistry was unique in its scope. He collected at Clark a library of this material, probably unequalled in extent and variety of topics covered.

With a personality that made friends everywhere, his generosity and desire to help all with whom he came in contact, made a marked impression upon all. Local student opinion is well expressed in the following extract from an editorial in a student publication.

"All who knew Mr. Belknap whether they be of the Faculty or student body know his generosity, his willingness to lend a helping hand, his ingenuity, and above all the quality of that affection he inspired in all his fellow-workers. The laboratories will not be the same without him." B. S. MERIGOLD.

The following members of the Northeastern Section have signified their intention of attending the Indianapolis meeting of the American Chemical Society: Arthur D. Holmes, Gustavus J. Esselen, the Reverend M. J. Ahern, Lyman C. Newell, Arthur M. Comey, Alfred W. Francis, Raymond Stevens, James F. Norris, James B. Conant, and Arthur B. Lamb.

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## STUDENT ASSISTANTS

*Biology*

CHARLES M. POMERAT

*Chemistry*

OSCAR FEINSILVER, A.B.

GEORGE HIGGINBOTTOM, A.B.

FREDERICK M. MURDOCK, A.B.

HARRY D. SOLOMON, A.B.

*Economics and Sociology*

THOMAS KINSELLA, B.S. IN COM.

WILLIAM F. MCCORMICK, A.B.

ARTHUR T. SUTHERLAND, A.B.

*Geography*

GEORGE B. CRESSEY, PH.D.

*History and International Relations*

CLARICE J. WEEDEN, A.B.

PHILIP WILLAUER, A.B.

*Physics*

ALBERT C. ERICKSON, A.B.

BOARDMAN A. WEST

*Psychology*

BARRY CASPER, A.M.

NATHAN GOLDMAN, A.M.

CLARENCE V. HUDGINS, A.M.



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Secretary of the Faculty, Charles B. Randolph.

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President Wallace W. Atwood, *ex officio*

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The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*

George H. Blakeslee	Walter S. Hunter
Samuel J. Brandenburg	Clarence F. Jones
Charles F. Brooks	James A. Maxwell
W. Elmer Ekblaw	Benjamin S. Merigold
Robert H. Goddard	Carl Murchison
John P. Nafe	Wm. H. Warren
James B. Hedges	Carey E. Melville, Secretary

## THE COLLEGIATE BOARD

The Collegiate Board consists of the President, the Dean of the College, the Registrar of the College and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division subject to the direction of the Faculty and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood	} <i>ex officio</i>
Collegiate Dean Homer P. Little	
Registrar Carey E. Melville	
Jesse L. Bullock	James A. Maxwell
Vernon Jones	Edward D. Pousland
Dwight E. Lee	Douglas C. Ridgley
Percy M. Roope	

## THE COMMITTEE ON SPECIAL STUDENTS

The Committee exercises general supervision over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Wallace W. Atwood, <i>ex officio</i>	
Registrar Carey E. Melville, <i>Chairman</i>	
Collegiate Dean Homer P. Little	
Director of the Summer School and of the	
Home Study Department Douglas C. Ridgley	
Philip H. Churchman	Vernon Jones

## THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, <i>ex officio</i>	
Director of the Summer School, Douglas C. Ridgley	
George H. Blakeslee	Carey E. Melville
Samuel J. Brandenburg	

## THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee	Homer P. Little
Walter S. Hunter	Carey E. Melville
Benjamin S. Merigold	

## COMMITTEE ON EXTENSION COURSES

Philip H. Churchman, *Chairman*  
 Samuel J. Brandenburg                      Homer P. Little  
 Vernon A. Jones                              Carey E. Melville  
                                  Douglas C. Ridgley

STANDING COMMITTEES OF THE  
GRADUATE BOARD

## THE COMMITTEE ON CREDENTIALS

The Committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to Fellowships and Scholarships and candidacy for graduate degrees.

President Wallace W. Atwood, *ex officio*  
 Charles F. Brooks, *Chairman*  
 George H. Blakeslee                      Samuel J. Brandenburg  
                                  Carl Murchison

## THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The Committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, *ex officio*  
 Philip H. Churchman, Professor of Romance Languages  
 Charles B. Randolph, Professor of German  
 A representative of the students' major department.

STANDING COMMITTEES OF THE  
COLLEGIATE BOARD

## THE COMMITTEE ON ADMISSIONS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little, <i>Chairman</i>	
Registrar Carey E. Melville	
Samuel J. Brandenburg	Benjamin S. Merigold

## THE COMMITTEE ON CURRICULUM

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
Registrar Carey E. Melville, <i>Chairman</i>	
Leroy A. Ames	Dwight E. Lee
Philip H. Churchman	

## THE COMMITTEE ON ATHLETICS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
James A. Maxwell	Ernest R. Whitman
David Potter	Frank B. Williams

## THE COMMITTEE ON AUTHORIZED EXCURSIONS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
Charles F. Brooks	Carey E. Melville

## COMMITTEE ON STUDENT FINANCE

Dean Homer P. Little	} <i>ex officio</i>
President Wallace W. Atwood	
Charles B. Randolph, <i>Chairman</i>	
James A. Maxwell	Ernest R. Whitman
Frank B. Williams	

## COMMITTEE ON THE STUDENT ACTIVITIES FUND

Dwight E. Lee, <i>Chairman</i>	
Arthur F. Lucas	Ernest R. Whitman

## COMMITTEE ON SOCIAL AFFAIRS

President Wallace W. Atwood	} <i>ex officio</i>
Dean Homer P. Little	
Leroy A. Ames, <i>Chairman</i>	
Charles B. Randolph	William H. Warren



## COMMITTEE ON FRATERNITIES

President Wallace W. Atwood	} <i>ex officio</i>	
Dean Homer P. Little		
Frank B. Williams, <i>Chairman</i>		
Dwight E. Lee		Arthur F. Lucas

## COMMITTEE ON PUBLICATIONS

President Wallace W. Atwood	} <i>ex officio</i>	
Dean Homer P. Little		
Haven D. Brackett, <i>Chairman</i>		
Heinrich Bosshard		Percy M. Roope

# THE UNIVERSITY

## THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of about two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

Situated at the eastern border of the Central Massachusetts upland at an altitude of nearly six hundred feet above sea level, excessive humidity is seldom experienced and the climate is bracing.

## GROUNDS AND BUILDINGS

The University Campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes' walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the Campus.

## ORGANIZATION

The University includes:

THE UNDERGRADUATE DIVISION offering a general collegiate course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in Geography and related subjects.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degree of Bachelor of Education.

THE EXTENSION DIVISION offering courses at the University in the late afternoon, evenings and on Saturday with special reference to the needs of candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

COURSES OF STUDY are offered by thirteen departments:

1. Ancient Languages and Literatures
2. Biology
3. Chemistry
4. Economics and Sociology
5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Mathematics
11. Physics
12. Psychology and Education
13. Romance Languages and Literatures

### THE ACADEMIC YEAR

The academic year begins on the fourth Thursday in September, and Commencement Day is the thirty-eighth Monday following (the second or third Monday in June). The first semester ends on the Saturday before the twentieth Monday, and the second semester begins on the twentieth Monday of the academic year. There are three recesses during the college year: Thanksgiving Day and the two days following; two weeks including Christmas and New Year's Day; and the week including the nineteenth of April. University exercises are suspended also on Columbus Day, Washington's Birthday, and Memorial Day.

CLARK UNIVERSITY  
WORCESTER, MASSACHUSETTS

OFFICE OF THE PRESIDENT

May 21, 1931

SPECIAL RULING BY THE BOARD OF TRUSTEES

At the regular meeting of the Board of Trustees, held March 28, 1931, the following action was taken:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

This rule must be incorporated in the next edition of the Catalogue. It must become known to all students entering in the fall; either a little slip should be handed to them, or perhaps the posting of this notice would do.

Very truly yours

Wallace W. Atwood  
President

Miss Chandler  
Dean Little  
Mr. Melville





The Summer School begins on a Monday near the first of July and continues in session for six weeks.

*Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.*

## ADMISSION

Three classes of students are admitted:

1. Undergraduates. For requirements see announcement of the Undergraduate Division.

2. Graduate students. For requirements see announcement of the Graduate Division.

3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see announcement of the Bachelor of Education Degree.

Requests for information and for application forms should be addressed to the Registrar.

## REGISTRATION

The first day of the academic year and of the summer session are devoted to the registration of programs of study. Registration for the second semester is required not later than the eleventh day (Wednesday) before the beginning of the semester.

*Failure to register at the time designated is penalized, in the case of undergraduates, by a fine of one dollar for each day's delay up to maximum of five dollars.*

## TUITION AND FEES

### TUITION

The tuition in the Undergraduate and Graduate Divisions is \$200 per year. In addition to the tuition the University collects from each undergraduate five dollars each semester for the support of "student activities." Special Students and others carrying small programs are charged at the rate of \$40 for a course meet-

ing one hour weekly through the year, and \$20 for each additional hour per week through the year. Tuition is payable in two equal installments. These installments are due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of \$2.

Tuition in the Summer School is \$20 for a single course and \$35 for two or more courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers is \$8.00 for a course meeting one hour per week for one semester and \$15 for a course meeting two hours a week for one semester.

#### MATRICULATION FEE

A matriculation fee of \$5 is required of all students formally enrolled in Clark University. This is paid but once, and permits a student to return successive years, or after a period of absence, without any further charge for matriculation. This fee is paid also by students who register for the Summer School.

Students admitted to special courses for teachers (extension courses), to field trips conducted by the Summer School and to Home Study courses are not required to matriculate.

*Official statements of record are issued by the Registrar of the University to matriculated students only.*

#### LABORATORY FEES AND DEPOSITS

Laboratory fees are charged at the rate of \$5.00 each semester for undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in Chemistry. Any balance remaining at the end of the year is returned on application, and if the deposit is not sufficient to cover breakage, any excess is collected by the Bursar.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary

CLARK UNIVERSITY  
WORCESTER, MASSACHUSETTS

OFFICE OF THE PRESIDENT

May 18, 1931

Dear Mr. Melville:

I understand that Miss Marie McLaughlin, who is coming from the University of Pittsburgh to join our autumn field party, is not planning to remain at the University to prepare a report or in any way use the facilities of the University after the field season is over. I think, therefore, that we better make a charge of \$25.00 as a special tuition fee for this course.

Yours very truly

A handwritten signature in cursive script, reading "Wallace H. Wood". The signature is written in dark ink and is positioned below the typed name "Wallace H. Wood".

Mr. C.E. Melville  
Clark University





supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

### PUBLICATION FEES

Publication fees, \$10 for the Master of Arts thesis and \$15 for the Doctor of Philosophy dissertation are due when applications for admission to candidacy are filed.

### DIPLOMA FEES

Diploma fees are charged according to the following schedule:

For the Bachelor of Arts or the Bachelor of Education diploma, \$5.00. These fees are due before the delivery of the diploma.

For the Master of Arts diploma, due when applications for admission to candidacy are filed, \$10.00.

For the Doctor of Philosophy diploma, due when applications for admission to candidacy are filed, \$25.00.

### DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is \$7.50 per week, *with no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, (See cut and floor plan) the undergraduate dormitory completed in 1924, provides accommodations for about fifty students at a cost of \$150 a year each for two students in a suite of two rooms, or \$115 each for two in one room. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit \$25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar.

Freshmen not living in their own homes are required to room in Estabrook Hall. Rooms not required for Freshmen may be rented by upper classmen or by graduate students. Rooms are assigned to Freshmen in order of application, when the application is accompanied by the deposit of \$25. Students who indicate a desire to room together will be accommodated whenever possible.

The University also has dormitory accommodations for a small number of graduate students. Lodgings can be secured in private houses within convenient distance from the campus at a reasonable cost.

### OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city and that the total is largely dependent upon the individual's habits and tastes.

The cost of books varies with the programs of study. The University maintains a bookstore which is operated without profit in order to reduce the cost of text-books and supplies.

### FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships and scholarships for graduate students are available as stated in the announcement of the Graduate Division.

Undergraduate scholarships are available as stated in the announcement of the Undergraduate Division.

Loans and other grants are also available from various special funds specifically designated for either graduate or undergraduate students and from the Sarah M. Thurber Loan Fund to both graduates and undergraduates.

### HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises general supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year. Three hours per week of physical training are required of all who are not

excused for adequate reasons. Medical examinations and physical training are optional with graduate students.

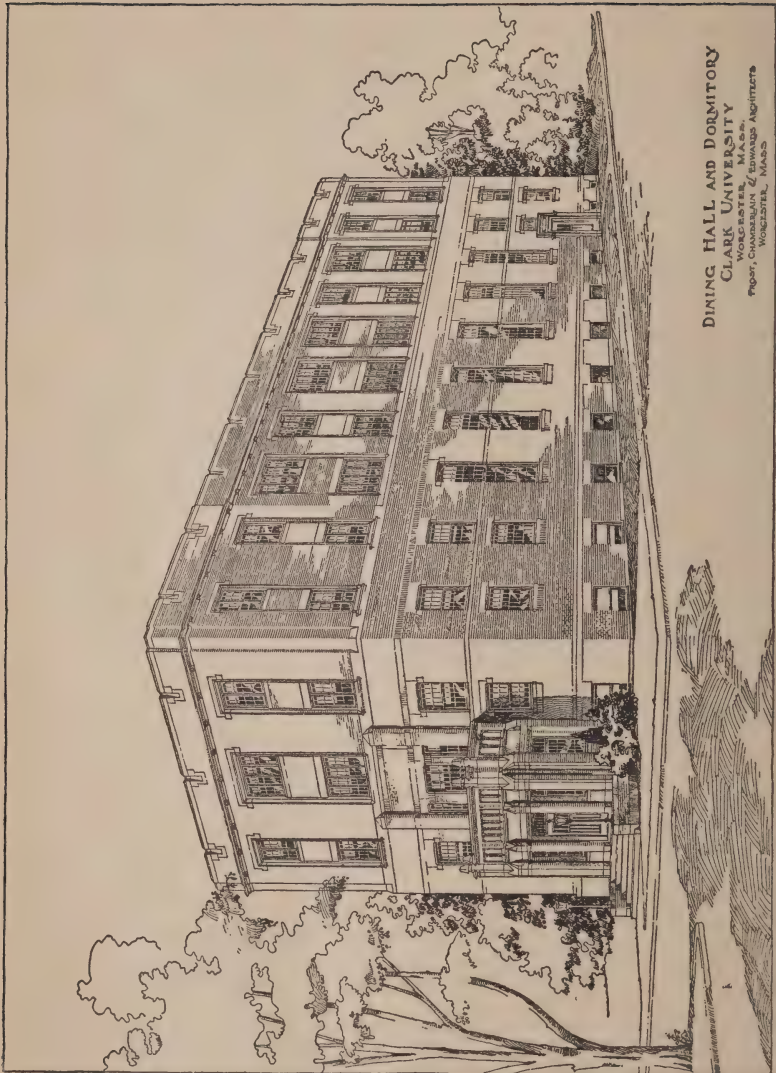
The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics of the Faculty.

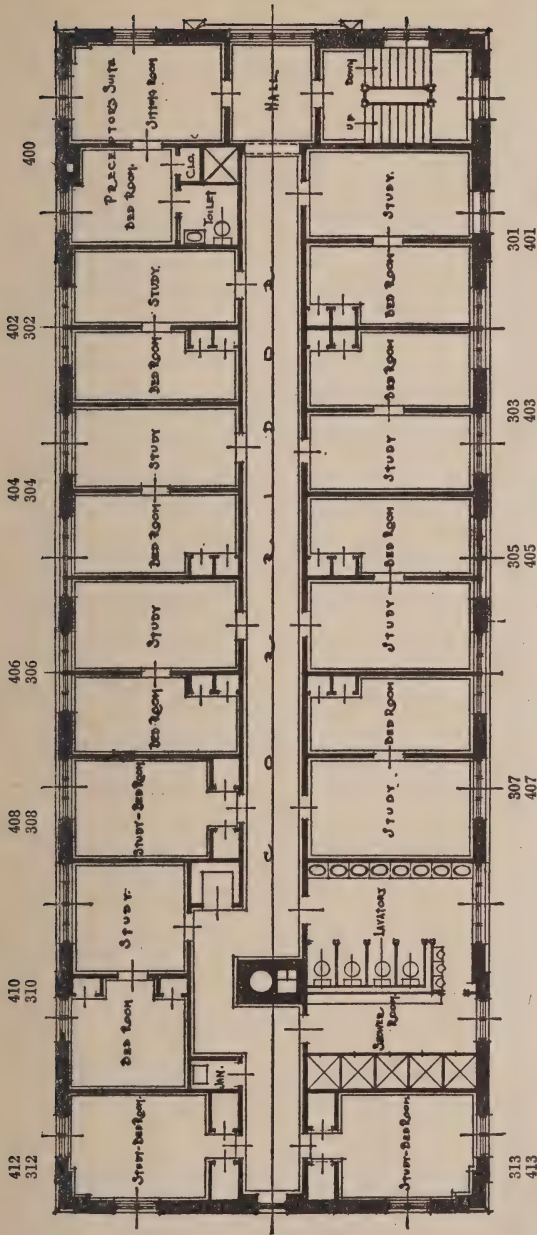
The University has two athletic grounds. The smaller one lies across Maywood Street from the campus and includes tennis courts and a cinder running track about an eighth of a mile in length. The larger athletic field, secured in 1924, is located at the corner of Beaver Street and Park Avenue, about five minutes' walk from the University.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.





DINING HALL AND DORMITORY  
CLARK UNIVERSITY  
WORCESTER, MASS.  
JAMES C. HARRIS, ARCHT.  
Worcester, Mass.



THIRD FLOOR PLAN  
Scale 1/8" = 1'-0"

### DINING HALL AND DORMITORY, CLARK UNIVERSITY

This dormitory is primarily for Freshman students, has been placed at a very modest figure, much less than rooms of similar equipment and attractiveness attending the College and who are not excused by special action of the Collegiate Board are required to live here during their first year. The rent for the rooms vision over the life in the dormitory.

# THE LIBRARY

EDITH M. BAKER, *Acting Librarian*

HELEN J. ELLIOT, *Cataloguer*

## *Assistants*

MARION HENDERSON

EMILY C. KELLEY

EDITH L. SAWYER

DORIS S. WILSON

## *Student Assistants*

E. H. TWOMBLY

W. SALMINEN

The Library under the terms of Mr. Clark's will received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments.

The Library is situated on the corner of Main and Downing Streets. A full description of the building and of the Proceedings at the Public Opening which was held January 14, 1904, will be found in the Publications of the Clark University Library for April, 1904 (Vol. 1, No. 3).

The Library contains over 137,000 bound volumes and pamphlets, and the reading room receives about 500 journals.

The books are grouped as follows:

A Works of General Reference	L Biography
B Journals	M Anthropogeography
C Mathematics	N Education
CD Mathematics-Physics	O General Science
D Physics	P History
DE Physical Chemistry	R Political and Social Science
E Chemistry	Economics
F Biology, Zoölogy, Botany,	S English
Physiology, Neurology	T Modern Languages
G Geography	U Classics
H Pathology	W Practical Arts
I Psychology	X Library Science
J Philosophy	Y Art
K Religious Psychology	Z European War

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference sec-

tion, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about four thousand volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All the privileges of the Library are open to all members of the University.

The Library is open from 8 a. m. to 10 p. m. each week day (except on legal holidays), during term time and during the Summer School session.

#### ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those of the Founder's collection that were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which, by the conditions of the will, cannot be removed from the build-



ing. A complete catalogue of these books and paintings has been published in the Publications of the Library, Vol. 2, No. 1.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

Five portraits and two landscape paintings have been added to the collection:

1909. Portrait of the late Carroll D. Wright, president of Clark College from 1903 to 1909, by the late Frederick Vinton of Boston.

This painting was awarded the Temple Gold Medal at the 1909 Exhibition of the Pennsylvania Academy of Fine Arts.

1911. Portrait of G. Stanley Hall, president of Clark University from 1888 to 1920, by the late Frederick P. Vinton of Boston.

1913. Landscape painting, "Snowing," by Joseph H. Greenwood of Worcester.

1914. Portrait of Edmund C. Sanford, president of Clark College from 1909 to 1920, by Joseph De Camp of Boston.

1921. Portrait of Augustus George Bullock, member of the Board of Trustees from 1901 to 1926 and president of the Board from 1905 to 1919, by Leslie P. Thompson of Boston.

1925. Portrait of Wallace W. Atwood, president of Clark University since 1920, by John C. Johansen of New York.

1926. Landscape painting, "Sugar Loaf Mountain, Deerfield, Mass.," by Colin A. Scott. Dr. Scott was Fellow in Psychology at Clark, 1894-1896, and received the Ph.D. degree June 30, 1896.

To commemorate the twenty-fifth anniversary of the University the Board of Trustees, early in 1914, commissioned Mr. Victor D. Brenner of New York to prepare a medal to mark that event. The medal is made of bronze and is three inches in diameter. On the obverse side is delineated the head of President G. Stanley Hall, and on the reverse a beautiful allegorical group symbolizing the spirit of the University and the legend.

"Knowledge is proud that he has learned so much,  
Wisdom is humble that he knows no more."

Scale models of the buildings and the University grounds have been made by T. J. McAuliffe and Son of Worcester, under the direction of the architects, Messrs. Frost and Chamberlain.

Shortly before his death, Dr. Sanford gave the Art Department a silver vase bearing an etching of Fuji-Yama and inscribed, "To Dr. E. C. Sanford from Nakanishi and Kakise, Tokio, 1921."

# THE CLARK UNIVERSITY PRESS

CARL MURCHISON, *Editor and Director*

LUBERTA HARDEN, *Assistant Editor*

JEANNETTE CUTLER, *Secretary* GLADYS GUNDERSEN, *Bookkeeper*

IRENE TISDELL, *Proofreader*

The Clark University Press was established in the spring of 1927, immediately after Dr. Murchison's return from England where a formal agreement with the Oxford University Press had been entered into whereby books published by the Clark University Press would, under certain conditions, bear the imprint of the Oxford University Press.

The Clark University Press, not being a service department of the University, is not responsible for routine printing or routine publication, but is interested exclusively in the publication of the highest type of scholarly research. It is self-supporting and occupies no place in the annual budget of the University. Its salaries and other expenses are borne entirely out of income from the sale of publications. It is controlled by a Board of Governors appointed by the Trustees of the University.

Up to the present time, the publications of the Clark University Press have been exclusively in the field of psychology. This has been true because the professional contacts of those primarily interested in the Press have been in this field and also because this field offers a stable, established market for publication. The above two explanations exist very largely as the result of the history, psychological traditions, and psychological prestige of Clark University. As time passes, the University may be interested in adding other fields to the publications of the Clark University Press, but such addition must of necessity wait until such fields have met the above conditions or until necessary funds should become available.

The Clark University Press is a part of Clark University because of the personal interests of its Editor, of the President of the University, and of certain members of the Board of Trustees of the University. Any financial investments made in the

Press by the University have been very nominal and pay the University the same interest rate received from other endowment funds. Beginning at almost nothing, the sales receipts of the Press have increased until they now average several thousand dollars per month.

The following journals and books are published by the Clark University Press:

## JOURNALS

PEDAGOGICAL SEMINARY AND JOURNAL OF GENETIC PSYCHOLOGY.

Subscription \$7.00. 600 pages annually. Edited by Carl Murchison and an international co-operating board consisting of twenty-eight psychologists. Quarterly. Child behavior, animal behavior, and comparative psychology. Founded 1891.

GENETIC PSYCHOLOGY MONOGRAPHS.

Subscription \$7.00 per volume. Two volumes per year, 500-600 pages each. Edited by Carl Murchison and an international co-operating board consisting of twenty-eight psychologists. Monthly. Each number one complete research. Child behavior, animal behavior, and comparative psychology. Founded 1925.

JOURNAL OF GENERAL PSYCHOLOGY.

Subscription \$7.00. 500-600 pages annually. Edited by Carl Murchison and an international co-operating board consisting of thirty-two psychologists. Quarterly. Experimental, theoretical, clinical, and historical psychology. Founded 1927.

JOURNAL OF SOCIAL PSYCHOLOGY.

Subscription \$7.00. 500-600 pages annually. Edited by John Dewey, Carl Murchison, and an international co-operating board consisting of twenty-four psychologists. Quarterly. Political, racial, and differential psychology. Founded 1929.

## BOOKS

PSYCHOLOGIES OF 1925.

By nine psychologists. Edited by Carl Murchison. \$6.00, *postpaid*. First edition, 1926; second edition, 1927; third edition, 1928.

CRIMINAL INTELLIGENCE.

By Carl Murchison. \$4.00, *postpaid*. Published 1926.

THE CASE FOR AND AGAINST PSYCHICAL BELIEF.

By fourteen authors. Edited by Carl Murchison. \$3.75, *postpaid*. Published 1927.

FEELINGS AND EMOTIONS: THE WITTENBERG SYMPOSIUM.

By thirty-four psychologists. Edited by Martin L. Reymert, Wittenberg College. \$6.00 *postpaid*. Published 1928.

SOCIAL PSYCHOLOGY: THE PSYCHOLOGY OF POLITICAL DOMINATION.

By Carl Murchison. \$3.50, *postpaid*. Published 1929.

THE COMMON SENSE OF DREAMS.

By Henry J. Watt, *Late Lecturer in Psychology in the University of Glasgow, and Late Consulting Psychologist to the Glasgow Royal Asylum*. \$3.00, *postpaid*. Published 1929.

THE PSYCHOLOGICAL REGISTER.

Edited by Carl Murchison and an international co-operating board consisting of eight psychologists. \$6.00, *postpaid*. Published 1929.

THE FOUNDATIONS OF EXPERIMENTAL PSYCHOLOGY.

By twenty-three psychologists. Edited by Carl Murchison. \$6.00, *postpaid*. Published 1929; reprinted 1930.

PSYCHOLOGIES OF 1930.

By twenty-four psychologists. Edited by Carl Murchison. \$6.00, *postpaid*. Published 1930.

A HISTORY OF PSYCHOLOGY IN AUTOBIOGRAPHY, Volume I.

By fifteen psychologists. Edited by Carl Murchison. \$6.00, *postpaid*. Published 1930.

THE HANDBOOK OF CHILD PSYCHOLOGY.

By twenty-four psychologists. Edited by Carl Murchison. In preparation.

A HISTORY OF PSYCHOLOGY IN AUTOBIOGRAPHY, Volume II.

By fifteen psychologists. Edited by Carl Murchison. \$5.00, *postpaid*. In preparation.

A HISTORY OF PSYCHOLOGY IN AUTOBIOGRAPHY, Volume III.

Edited by Carl Murchison. \$5.00, *postpaid*. In preparation.



# THE UNDERGRADUATE DIVISION

(CLARK COLLEGE)

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was in part due to the emphasis placed upon a three-year course in the will of the founder, and in part the result of a conviction that properly prepared students could, under favorable conditions, secure in three years a training in no substantial degree inferior to that ordinarily obtained in a four-year college course. Increasing pressure, on the one hand, for the admission of high school graduates who could not qualify for the three-year course and, on the other hand, for a larger development of extra-curricular activities, including athletics, has led to a modification of this plan. Beginning with the class which entered in September, 1922, a regular four-year course leading to the Bachelor of Arts degree has been offered. Opportunity to complete the requirements for graduation in three years, though still open to qualified students, is seldom used.

The College has a competent faculty, large in proportion to the number of students, and is well equipped for the work which it undertakes. It especially commends itself to earnest young men who wish to economize in either time or money. In accordance with the expressed wish of the founder, the tuition has been kept as low as possible. A general and well-balanced undergraduate curriculum leading to the degree of Bachelor of Arts is offered. Distinctly vocational or professional work is not offered although certain departments, particularly the Department of Chemistry, have been able to give a training which has enabled students to take up professional employment immediately after graduation.

A complete statement in regard to fees and expenses will be found on pages 29 to 33.

## SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trus-

tees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates. These scholarships replace the smaller number of UNDERGRADUATE SCHOLARSHIPS previously available. Twenty of these scholarships are reserved for applicants for admission to the Freshman Class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates of the Worcester High Schools. Of the remaining thirty scholarships, ten will be reserved for each of the three upper classes for students who rank in the upper quarter of each class.

These awards are for the encouragement of high grade scholarship. In conformity with this purpose they are subject to the following conditions: (1) one-half the value of the scholarship will be deducted from the term bill of the holder at the beginning of each semester, (2) a scholarship will be automatically forfeited for the second semester if the holder fails to maintain a satisfactory rank in his college program during the first semester.

THE SANFORD MEMORIAL SCHOLARSHIP FUND. The alumni of the university have raised four thousand dollars to found a scholarship fund in memory of former President Edmund C. Sanford, the income from which is to pay the full tuition of some undergraduate. Included in the fund, by vote of the class of 1918, is its class gift to the University. The first award of the scholarship was made in June, 1930.

THE LIVERMORE AND AMBULANCE SCHOLARSHIP was endowed by citizens of Worcester in honor of Charles Randall Livermore, Clark College, '17, the first Clark man to fall in battle, and of his companions in the Clark Unit of Ambulance Drivers. A scholarship of fifty dollars or more is offered from the income of the fund, to be awarded on the basis of academic success, character and usefulness to the College. The scholarship is open to students in regular standing in any class of the College who are residents of Worcester County.

THE HENRY A. WILLIS FUND of \$5,000 provides an annual scholarship for students coming from Fitchburg and vicinity, but in the absence of a suitable recipient from this community other disposal may be made.

THE B'NAI BRITH SCHOLARSHIP is the income from a fund of \$2,000 provided by the Order of B'nai Brith, primarily but not exclusively for the aid of Jewish students.

THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB offers a \$100 scholarship to be given to an applicant who ranks high in intellectual and personal qualities. The club is assisted by Alumnae and wives of Alumni. Application should be made to Chairman Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the Collegiate Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if fewer than the full number of worthy candidates apply or if for any other reason this may seem advisable.

Aid which is given in the form of scholarships is not regarded as a loan. If however, those who avail themselves of such aid are able to return the amount in later years, the sums, whatever they may be, will be put into the Alumni Loan Fund of the College.

### LOAN FUNDS

THE ALUMNI LOAN FUND consists of appropriations for loans made by the Trustees over a period of years. Certain of these loans, collected with the co-operation of a committee of Alumni, have been granted as a permanent revolving loan fund. With this has been consolidated a fund of about \$500.00 contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin, H. M. Smith, and others.

THE ESTABROOK LOAN FUND is a revolving fund created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

These funds are loaned to undergraduates by the Dean in co-operation with the Alumni Committee on Loans. Loans are covered by endorsed notes payable at a fixed date and bear interest from date at the rate of six per cent per year. Applications may be made at any time.

THE SARAH M. THURBER LOAN FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of this fund to either undergraduate or graduate students. Such loans will bear interest at the rate of six per cent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

## ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College.

It is the practice to regard every admission as an "admission on trial" to the actual work at the College. The University reserves the right to require any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission to withdraw at any time.

Applications for admission should be made as early as is practicable. Application blanks, as well as official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

*Special students* are admitted to the University under the conditions stated on page 29.

## ADMISSION TO THE FRESHMAN CLASS

In addition to satisfactory references as to character, a four-year high school course or its equivalent, including a total of 15 units of credit in acceptable subjects, is required for admission to the Freshman class. A minimum of two units in Mathematics is required. A single unit in a foreign language is not accepted. Commercial and industrial subjects may be credited to a total not exceeding three units. The term "unit" is understood to mean approximately one-quarter of a pupil's normal program of work for the school year.

An applicant for admission to the Freshman class should supply, on blanks furnished by the college.

1. A signed application for admission which should be for-



warded by the principal of the school in which the applicant has prepared for college, after the "Personality Rating Scale" has been completed by a responsible officer of the school. This application should be filed with the Dean at the earliest practicable date.

2. A complete statement of his preparatory school record. This should be mailed to the Dean by the officer who signs it. (See statement below in regard to certificates).
3. Records of any entrance examinations which he may have taken and of any action by any other college in respect to admission.

### CERTIFICATES

Applicants whose references are satisfactory and who present records from approved schools will be admitted (a) *without conditions* if they offer *fifteen certified* units of credits in acceptable subjects, or (b) *with one or two conditions* if they offer *fourteen or thirteen certified units* respectively in acceptable subjects.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools not on this list may receive "specimen" certification privileges by applying to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Conn.

A certificate from a school not on the list approved by the Board is not valid for admission unless the school lies outside of the jurisdiction of the Board.

### ENTRANCE EXAMINATIONS

Applicants from approved schools who cannot present at least thirteen certified units, and applicants from schools which do not have the certificate privilege should arrange in consultation with the Dean to take examinations offered by the College Entrance Examination Board in June. Information concerning these examinations may be obtained from school officers or by addressing the Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in a designated set of

examinations may be admitted to the College with or without conditions. The College will determine in each case what constitutes a satisfactory record in examination.

A final opportunity for making up entrance deficiencies by examinations is offered at the college immediately before the opening of the academic year in September. These examinations are also provided by the College Entrance Examination Board, and are intended to be supplementary to those held in June. Admission to them is by special permission in each case. A fee of \$5.00 is charged by the College for a single examination, with an additional fee of \$3.00 for each subject after the first.

#### ADMISSION WITH CONDITIONS

Admission with conditions is essentially admission on trial. It is not intended that such admissions shall involve the requirement of additional courses during the freshman year for students who are less well prepared than those admitted without conditions. All conditions will be terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation. Conditions may be in specified subjects or may be general, in the latter case indicating some deficiency in the high school course as a whole.

Conditions will be removed if at the end of the freshman year the conditioned student shall have met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter of the class in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in College Entrance Board Examinations covering the conditioned subjects in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, must be filed with the Registrar not later than the first of August preceding the date of the examinations. The fee for examination must be paid when applications are filed.

*Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.*

#### ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after previous study

at another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the last institution attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the Freshman, Sophomore, Junior, or Senior class and will be permitted to register for such courses as he is prepared to undertake. He will not be given a final class rating or a definite amount of credit for work done elsewhere until he has been in residence for at least one semester. After satisfying this requirement as to residence he will be given credit for the work done at any other institution to an amount depending in each case upon the time spent upon it, the grade received, and upon the record made here. Such credit is granted by the vote of the Collegiate Board upon the recommendation of the Registrar.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence here, and usually not unless the time in residence includes the two semesters immediately preceding the granting of the degree.

### FACULTY ADVISERS

When a student is accepted by the Committee on Admissions he is assigned to a member of the Faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of the student's college life or other matters. The student should consult with his adviser as soon as possible in order to outline his program of studies before the opening of the College year. In all cases of action directly affecting a student, the adviser is his representative before the Faculty and will present the student's views and desires.

### REGISTRATION

Registration days are the first day of the academic year and the eleventh day (Wednesday) before the beginning of the second semester. Failure to register on or before these days involves a fine of \$1.00 for each day's delay up to a maximum of \$5.00

*A student's record of attendance begins with the first day of*

*the semester, and no credit for attendance is given until registration is completed. In cases of delayed registrations unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the Collegiate Board are presented.*

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the Collegiate Board.

Freshmen may register for programs of either fifteen or eighteen hours of college work per week in the first semester. After the first semester of the freshman year programs of eighteen or more hours per week are restricted to students whose average rank in all courses is 50th among 100 or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average rank for the preceding semester is as high as 75th among 100.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in College. This election when once recorded may be changed only at the beginning or end of a semester, and then only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in College, he should plan his course from the beginning as definitely as possible with his probable choice in view.

## THE CURRICULUM

The curriculum is arranged upon a plan which permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects ( a *major* and a *minor*) together with required courses in English, Fine Arts, and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

A *major* consists of at least twenty-four semester hours and a



*minor* of at least eighteen semester hours made up of such courses as are specified in the announcements of the various departments.

In order to facilitate the statement of requirements, the departments of instruction are grouped in three divisions:

#### DIVISION A

Biology, Chemistry, Geology, Mathematics, Physics, also the following individual courses: Geography 12, Psychology 12.

#### DIVISION B

Economics and Sociology, Geography, History and International Relations, Psychology.

#### DIVISION C

Ancient Languages, English, German, Romance Languages.

### STUDENT PROGRAMS

Regular students normally carry programs which yield a credit of fifteen or sixteen semester hours for each semester, in addition to the required work in Physical Training. These programs may include lectures, recitations, or work in laboratories. In general it is expected that all courses will require two hours of preparation for each lecture or recitation. Three hours are assumed for each laboratory period, which is counted as the equivalent of an hour of recitation and its two hours of preparation.

*A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in Physical Training.*

Candidates for the Bachelor's degree in less than four years will generally carry programs of from eighteen to twenty hours per week and should expect to spend practically their entire time on their college work.

Each student elects one of the thirteen departments in which he will complete a *major* and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must take up their programs entirely from courses designated as "Open to Freshmen."

The program for the freshman year must include:

1. English 11.
2. A course in Foreign Language.
3. A course in Division A.
4. A course in Division B.
5. An elective. Mathematics 10 or 11 for students intending to major in Division A.

Second year students should, as a rule, complete the requirement in English, continue work in Foreign Language, and complete the requirements f and g listed under 2 below. A course in Appreciation of the Fine Arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year.

Undergraduates, other than Freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and Juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the Collegiate Board and of the Graduate Board.

## PHYSICAL TRAINING

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. The hours at which this work is given are set at times which avoid conflict with recitation hours.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

1. A minimum period of study in residence of three academic years.
2. One hundred and twenty semester hours of credit with a satisfactory standing, in addition to the required work in physical training.

The 120 hours required for graduation must include:

- a. A *major* of not less than twenty-four semester hours.
- b. A *minor* of not less than eighteen semester hours.
- c. A requirement depending on the choice of the *major* subject, six semester hours.

Those majoring in Division A must take Mathematics 10 or 11 in the freshman year.

Those majoring in Division B must take either Greek, Latin, Mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

Those majoring in Division C must take Greek or Latin in the Freshman year. This requirement is waived if two units of Greek or Latin are presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, twelve semester hours, including English 11 required in the first year, and six semester hours additional required before the end of the third year.

Fine Arts 1 and Public Speaking are not accepted in fulfillment of this requirement.

- e. *Foreign Language*, at least thirty semester hours including credits accepted for admission. Foreign language accepted for admission will be credited towards the fulfillment of this requirement on the basis of six semester hours for two units of preparatory work in one language, twelve semester hours for three units in one language and eighteen semester hours for four units.

One foreign language course of at least second year college grade must be taken in college.

The thirty semester hours required may be divided between any two languages or among any three, but not less than six semester hours will be accepted in any one language and at least eighteen semester hours are required in one language.

- f. *Division A*, twelve semester hours for students whose High school course included two or three units of Science in

addition to Mathematics. For students who presented only a single unit of Science, this requirement is eighteen hours. For students who presented four units of Science, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments, and six semester hours of it must be in some one laboratory course in Biology, Chemistry, Geology, or Physics.

Courses in the history of various sciences may not be used in fulfillment of this requirement.

- g. *Division B*, twelve semester hours for students whose High school course included two or three units of History or related subjects. For students whose high school course included only a single unit in this field, the requirement is eighteen semester hours. For students whose high school course included four units in this field, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments with not less than six semester hours in any department.

- h. *Appreciation of the Fine Arts*, a semester course, three hours per week, required before the end of the second year.
- 3. *Physical Training*, three hours per week through the course except during the second semester of the senior year. Any student may be excused from this requirement for adequate reasons.

Students who satisfy all of the foregoing requirements will be recommended for the degree of Bachelor of Arts unless in the judgment of the Faculty there is cause for withholding this recommendation.

## GRADING AND SCHOLARSHIP

*A student's scholarship record is determined by his relative standing in each of his courses.*

*College regulations concerning scholarship are based on the fundamental assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be*



*about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.*

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra credit amounts to 0.5 hour for ranks from 1 to 5, 0.3 hour for ranks from 6 to 15 and 0.2 hour for ranks from 16 to 25.

Courses in which a student is ranked in the lowest quarter of the class may be counted toward the A.B. degree only when combined with courses in which the rank is higher, in the proportion of two hours of credit in the lowest quarter of any class to three hours of credit ranked above the lowest quarter.

## CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors and Seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours, is classified as a Freshman for that year.

A student, who, at the beginning of any academic year, has credit of 15 hours or more, but less than 48 hours, is classified as a Sophomore for that year.

A student, who at the beginning of any academic year, has credit of 48 hours or more, but less than 84 hours, is classified as a Junior for that year.

A student, who, at the beginning of any academic year, has credit of 84 hours or more, is classified as a Senior for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours or more of credit, is classified as a Senior for that year.

Any student, who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a Senior for the second semester.

## HONORS

"First Honors" and "Second Honors" are awarded annually to those members of each class who have, in the judgment of the Faculty, distinguished themselves by their scholarship during the year.

The Bachelor's degree is awarded "With Honor," "With High Honor," and "With Highest Honor" to those members of each graduating class who have made the most creditable records.

In 1914 the Clark Scholarship Society was organized. The society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the Junior Class. The Faculty makes nominations and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

## STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from University exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

While encouraging the fullest possible measure of student self-government, the College recognizes the fact that the individuals and groups among the undergraduates require a reasonable amount of oversight in their various undertakings.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

Participation in extra curricular activities is denied to those students only whose scholarship record is such as to indicate that further encroachment upon their time and attention may interfere with the completion of their course. In accordance with this principle, a student is "ineligible" for the following half semester if at any report period

- (a) he fails more than one course.
- (b) he fails one course and does not secure ranks above the lower quarter of the class in two subjects.
- (c) he passes all courses, and does not secure a rank above the lowest quarter of the class in at least one subject.

Students admitted with advanced standing from another college are "ineligible" for the first half-semester of residence here, and special students are "ineligible."

The general supervision of intercollegiate athletics is committed to an athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the Collegiate Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

Opportunity for relaxation and the meeting of students and faculty on a basis of general sociability is provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and many other organizations.

The Dramatic Association is a very active student organization which presents a number of plays each year under the direction of Professor George E. Baker of the Department of English.

The Sub-Freshman Day, in the spring, those who have some expectation of entering the College in September are guests of the University for the purpose of establishing mutual acquaintanceship.

THE CLARK QUARTERLY, a review of college life and letters, and THE CLARK NEWS, a weekly undergraduate publication, are published by the students.

# THE GRADUATE DIVISION

## GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degree of Master of Arts and Doctor of Philosophy are offered by the following departments\*:

Economics and Sociology

Geography

History and International Relations

Psychology

Work leading to the degree of Master of Arts only is offered by the departments of Chemistry\* and Physics\*.

The other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found on pages 29 to 32.

Fellowship stipends for graduate students are provided annually from the income of the George F. Hoar Fund of one hundred thousand dollars, the gift of Andrew Carnegie. Other financial assistance is made possible by University grants and by various bequests.

## SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend up to

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\*Beginning September 1931, the departments of Biology, Chemistry, and Physics will be authorized to accept candidates for the degrees of Master of Arts and Doctor of Philosophy. In the department of Biology programs leading to the doctorate will be limited to the field of Physiology. Candidates for the doctorate in Physics will presumably not be enrolled until after the return of Professor Goddard who is absent on leave.



\$200, and fellowships yielding tuition and additional stipends up to \$800.

*The American Antiquarian Society Fellowship in American History*, having a value of \$300 in addition to the remission of tuition, has been established by members of the American Antiquarian Society. This fellowship will be awarded to a student whose *major* is in American History.

*The William Libbey Fellowships in Geography for 1930-31.* Mary E. Libbey presented to the University the sum of \$1000 to establish William Libbey Memorial Fellowships in the Graduate School of Geography during the year 1930-31. The awards will be made by the staff of the School of Geography.

#### STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND has been established by a citizen of Worcester in the sum of five thousand dollars, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a Scholar or Fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The following regulations apply to the award of the income of the Field Fund:

1. Regard is had to the intellectual ability of the candidate as well as to the need of pecuniary assistance.
2. Only candidates who have spent three months in graduate work at the University are considered.
3. The head of each department will consider and report to the Faculty desirable cases in his department.
4. Applications are received not later than January 30, and the awards made as soon as possible after the beginning of the second semester.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars the income only of which is to be expended to aid graduate students of limited means engaged in research work.

#### LOAN FUNDS

THE SARAH M. THURBER FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of the fund to either undergraduate students or graduate students. Such loans will bear interest at the rate of six per cent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

ALUMNI LOAN FUNDS. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

#### LIBRARY FACILITIES

In addition to the Library facilities provided by the University students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

On the following pages are printed the rules of the Graduate Board governing admissions, scholarships and fellowships, candidacy, theses, examinations, and degrees for graduate students in Clark University.

#### ADMISSION TO THE GRADUATE SCHOOL

*Eligibility.* Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than

average ability from a college or university that was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a *regular graduate student*. A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a *special graduate student*.

*Making application.* A prospective applicant should communicate with the department in which he expects to do his major work, to learn whether his preparation is satisfactory, and whether he is likely to obtain the department's endorsement of his application. The application should be made on a blank form which may be had from the Registrar or Secretary. This application, together with official certificates of previous undergraduate and graduate work, and if possible, of the applicant's rating in a standard intelligence test, should be filed with the Secretary of the Graduate Board. Any other information, including published or unpublished theses or other writings of the applicant, that would be helpful in showing the Board the applicant's qualification should be sent.

*Admission.* In granting admission, with the advice of the department the Graduate Board may prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement. A special graduate student is admitted only for a specified period, not exceeding one academic year.

*Admission of a special graduate student to regular graduate standing.* After a semester or its equivalent of residence and upon recommendation of his major department, a special graduate student may be admitted by the Board to regular graduate standing.

*Undergraduates and non-graduate special students in graduate courses.* Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be granted by the Graduate Board only on formal recommendation in each person's case by the department in which the course is offered.

## SCHOLARSHIPS AND FELLOWSHIPS

### GENERAL REGULATIONS

1. Scholarships and fellowships (except Honorary appointments) are for prospective candidates, respectively, for the degree of Master of Arts and of Doctor of Philosophy at this University.

2. All applications for scholarships and fellowships shall be filed by the applicant's major department with the Secretary of the Graduate Board on a form approved by the Board. Each application must carry the written explanatory, favorable or unfavorable, recommendation of the department and must be accompanied by supporting data. Applications when properly endorsed, as provided above, will be considered by the Committee on Credentials, which will report to the Graduate Board the names of all applicants together with the recommendations of the Committee. The Secretary will notify applicants of the action of the Board.

3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within 15 days of the date of notification.

4. For most favorable consideration applications for appointments for the succeeding academic year should be in the hands of the Secretary by March 1st.

5. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.

6. A scholar or fellow shall not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.



## SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the Master's degree in the normal time. These scholarships are valued at \$100 to \$400. This is equivalent to half or full tuition with, in some cases, an additional stipend of \$50 to \$200.

## FELLOWSHIPS

Fellowships valued at \$200 to \$600, which are equivalent to tuition alone or to tuition and an additional stipend of from \$50 to \$400, may be awarded to competent full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at \$200 to \$1,000, equivalent to tuition alone or to tuition and an additional stipend of \$50 to \$800, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as *research fellowships* or *teaching fellowships*, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

## HONORARY FELLOWSHIPS

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges, but no additional stipends are given.

## RULES AND REGULATIONS

## PROGRAMS OF STUDY

Programs of study of all students in the Graduate School, approved by departmental staffs, must be submitted to the Secretary of the Graduate Board by October 1 and February 10 each year. The Secretary shall scrutinize these programs and report any irregularities to the department concerned or to the Board.

## LANGUAGE REQUIREMENTS

*Requirement in English.* A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

*Foreign Languages.* A prospective candidate for the Ph.D. degree is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must present himself for these examinations not later than Feb. 1 of his first year of residence at Clark beyond the M.A. degree. When he is ready for either or both he is to notify the Secretary of the Graduate Board, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Secretary of the Board. Other additional language requirements may be imposed by the student's major department.

## RESIDENCE

A regular academic year of full-time study or its specified

equivalent in residence at Clark University is a prerequisite for any degree. Only the following is recognized as equivalent to a regular academic year: one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the major department may be accepted as meeting the residence requirements for the degree of Master of Arts. Residence work is broadly defined as regular work at Clark University done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the university faculty who is regularly engaged in graduate instruction is considered as providing an opportunity for work in residence to a maximum extent of nine weeks.

### THE DEGREE OF MASTER OF ARTS

*Admission to Candidacy.* Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work in the University, be accepted, by the Graduate Board, as candidates for the degree of Master of Arts. An application for admission to candidacy for the Master's degree will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university.
2. Paid the diploma fee (\$10.00) and publication fee (\$10.00), and
3. Obtained the written endorsement of his major department.

Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the degree. Unless extended by action of the Graduate Board, candidacy for the Master of Arts degree lapses at the end of three years. When candidacy expires without the degree having been awarded the diploma and publication fees, less any expenses incurred, will be returned.

*Course requirements.* In order to insure that the student may

## DISSERTATIONS AND THESES

The attention of prospective candidates for graduate degrees is called to the regulations of the Graduate Board concerning dissertations and theses.

The principal points to be observed are the following.

- 1) a. Each candidate for the degree of Doctor of Philosophy is required to submit to his chief instructor before May 1 a copy of his dissertation and two copies of an abstract not exceeding 1200 words in length.  
b. Each candidate for the degree of Master of Arts is required to submit to his chief instructor before May 15 a copy of his thesis and two copies of an abstract not exceeding 600 words in length.
- 2) Dissertations, theses, and abstracts must be typewritten, double-spaced, on official "thesis paper" which is for sale by the Bursar.  
Note: Quotations should be single spaced and indented
- 3) Maps, charts, and illustrations should if possible be of the same size as the thesis paper. If reduction to this size is not feasible, a sheet which will fold to the size of the thesis paper (with allowance at one edge for binding) should be used if possible. In special cases large maps or charts not suitable for binding with the dissertation or thesis may be submitted in separate portfolios.
- 4) The dissertation or thesis must be officially accepted by the chief instructor (acceptance will be indicated by his signature on the title page) before the final oral examination may be held.
- 5) Dissertations, theses, and abstracts must be filed with the Secretary of the Graduate Board by the departments not later than 9 o'clock A.M. of the Friday preceding commencement.





obtain the necessary training, he must meet a minimum course requirement of 18 semester hours in addition to his research work. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department.

*Examinations.* The candidate must make a satisfactory record in such written examinations as may be required by the major department, and a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report to the University Registrar, not later than 9 A. M. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the M.A. degree.

*Thesis.* The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and two copies of an approved abstract of it. The thesis shall be in a prescribed form and shall bear upon the title page the following statement:

"A thesis submitted to the Faculty of Clark University,  
Worcester, Massachusetts, in partial fulfillment of the re-  
quirements for the degree of Master of Arts in the Depart-  
ment of——— and accepted on the recommendation of  
(Name of Chief Instructor)."

The abstract should not exceed 600 words in length and should bear the written statement,

"Abstract approved for publication"  
(Name of chief instructor)."

The thesis and two copies of the abstract shall be delivered to the University Registrar not later than 9 A. M. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by the major department.

## THE DEGREE OF DOCTOR OF PHILOSOPHY

*Course of Study.* Only such candidates as give evidence of general proficiency, power of investigation and high attainments

in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the Doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

*Admission to Candidacy.* Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy for the degree of Doctor of Philosophy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed examinations in at least two foreign languages; French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these.
3. Passed a preliminary examination in his major and minor fields of study.
4. Paid the diploma and publication fees (\$25.00 and \$15.00);
5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and
6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the degree of Doctor of Philosophy shall hold good only for three years from the date of the vote granting admission to candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned.

*Dissertation.*

For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not

exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall contain a title page with the following statement:

"A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of——and accepted on the recommendation of  
(Name of Chief Instructor)."

The abstract should bear the written statement,

"Abstract approved for publication"  
(Name of chief instructor)."

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.

The complete copy and two copies of the abstract of the dissertation shall be delivered by the department to the University Registrar not later than 9 A. M. of the Friday preceding Commencement. The dissertation and one copy of the abstract will be deposited in the Library, where they shall remain permanently, not subject to withdrawal.

If and when a dissertation is published, five of the printed copies should be presented to the Clark Library; four copies to be retained by the Library and the other to be presented to the Library of Congress for its annual list of American doctoral dissertations printed.

*At the final examination* the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Additional written examinations may be given at the discretion of the departments concerned. The oral examination will be held by a committee of at least four members, including the chairman and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the graduate Board



under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the Secretary of the Graduate Board.

The Secretary of the Graduate Board shall prepare and publish a schedule of examinations and the examining committees for the degree of Doctor of Philosophy at least one week before the beginning of such examinations.

Each department shall render to the University Registrar final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 A. M. of the Friday preceding commencement.

## CLARK FIELD SCHOOL OF GEOGRAPHY

September 29 to October 18, 1930, inclusive

The Field School of Geography was established for the special training in field methods of the Graduate students of the Clark School of Geography under the direction of the members of its faculty. The Graduate students are all expected to take part in this work and three or four members of the staff will direct the party.

Location of Camp. The field selected for study during the fall of 1929<sup>20</sup> is in the Connecticut Valley, and adjoins on the south the area surveyed by the members of the field school in the fall of 1929. It extends from Northampton to Holyoke. The region to be surveyed includes part of the Berkshire Hills, a section through the Connecticut Valley lowland, and a portion of the central highlands of Massachusetts, and two large industrial districts. The region is rich in variety, and should prove a most interesting laboratory in which to spend the field season.

Nature of the work. The field studies undertaken by the members of the School, might be entitled "An Economic Survey of the Connecticut Valley and Neighboring Uplands." Plans include mapping of the surface features and formations, the soils, the native vegetation, the land utilization, and the population. Special climatic studies will be attempted, and special surveys of the industrial activities in that vicinity.

Camp Arrangements. A country home will be engaged as headquarters. Cooking, eating, and mapping will be done indoors. Some of the party may be accommodated in the home, but most of the party will camp in tents placed in the grounds of this country estate. Each member of the party is supplied tent and cot, but bedding and any other equipment that the individuals anticipate needing while in camp must be supplied by them. A heavy piece of canvas 5 feet wide and 12 feet long in which the personal equipment could be rolled up for shipment to camp, and back to the University at the close of the field season, proves very useful as a floor cloth in a tent, or for extra covering on a bed.



Clothing. Sport clothes such as would be used in golf or in tramping will be most appropriate. Comfortable shoes for tramping are essential. A sweater will probably prove to be welcome. A large piece of mosquito cloth may prove to be desirable.

Special Articles of Equipment. Every person should carry a strong pocket-knife, a cheap Ingersoll watch and a compass. A camera should prove useful.

Preliminary Conference. On September 26th and 27th members of the staff who participate in the field work will meet the members of the party for conference in the Workroom of the School of Geography at the University. Plans for the work will be presented and complete instructions given regarding the equipment and organization of groups and teams. Base maps have been mounted and will be available for the students upon their arrival. Colored crayons, a necessary part of the equipment, and other desirable articles of equipment, will be assembled in the Workroom at the time of the preliminary conferences.

Expenses. The camp fee for each student, including all expenses, is \$65.00. This should be paid by September 29th.

Mail Address. The postoffice address while in camp will be Potter Mansion, New England Colonial Village, Springfield, Mass.





# THE GRADUATE SCHOOL OF GEOGRAPHY

Work in Geography is carried on by the Graduate School of Geography which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well equipped building, including lecture rooms, offices and work rooms, and is directly connected with the William Libbey Geographical Library and the University Library.

Degrees in Geography are granted by the University on the same terms as in other fields of study.

## STAFF

WALLACE W. ATWOOD, PH.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

ELLEN C. SEMPLE, LL.D., Professor of Anthropogeography.

CHARLES F. BROOKS, PH.D., Professor of Meteorology and Climatology.

DOUGLAS C. RIDGLEY, PH.D., Professor of Geography in Education, Director of Home Study and of the Summer School.

CLARENCE F. JONES, PH.D., Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography, Assistant Editor, *Economic Geography*.

RUTH E. BAUGH, PH.D., Visiting Lecturer in Anthropogeography for the first semester of 1931-32.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

CHARLES B. FAWCETT, D.Sc., Lecturer in Geography, Autumn, 1930-31.

GUY H. BURNHAM, A.M., Cartographer.

GEORGE B. CRESSEY, PH.D., Assistant in Physiography.

EDITH M. FITTON, A.M., Research Assistant in Climatology.

## OTHER MEMBERS OF THE UNIVERSITY STAFF OFFERING

### CLOSELY RELATED WORK

GEORGE H. BLAKESLEE, PH.D., Professor of History and International Relations.

J. B. HEDGES, PH.D., Professor of American History.

HOMER P. LITTLE, PH.D., Professor of Geology.

SAMUEL J. BRANDENBURG, PH.D., Professor of Economics and Sociology.

JAMES ACKLEY MAXWELL, PH.D., Associate Professor in Economics.

VERNON A. JONES, PH.D., Associate Professor of Educational Psychology.

ARTHUR F. LUCAS, PH.D., Associate Professor of Economics and Sociology.

SIR GEORGE YOUNG, BT., M.V.O., Visiting Professor of Modern History and Politics.

T. P. CONWELL-EVANS, PH.D., Visiting Lecturer of Modern History and Politics.

NORMAN E. HIMES, A.M., Associate Professor of Economics and Sociology.

PERCY M. ROOPE, PH.D., Assistant Professor of Physics.

DAVID POTTER, M.Sc., Assistant Professor of Biology.

PAUL W. SHANKWEILER, A.M., Assistant Professor of Sociology.

## GENERAL STATEMENT

During the last few years the American people have been awakened, in a remarkable way, to an interest in Geography. Since the period of isolation in national development is passed, they have come to realize almost suddenly, that the United States of America is one of the leading nations of the world and vitally interested in foreign countries and their problems.

This awakening, and the consequent broadening of our horizon, have forced us to recognize that we have neglected in this country the scientific study of Geography. Many of the universities and colleges of this country are now calling for trained geographers. Commissioners of education, normal schools, and high schools are looking for men and women who can serve as supervisors or as special teachers in Geography. The large financial houses are endeavoring to train men in Commercial Geography in their own schools. The Departments of the Government are now using trained geographers, and the Civil Service Commission has recently recognized that no one should enter consular or diplomatic service who has not been trained in the geography of this country

and the world. The intelligent reading of current literature is demanding an increasing knowledge of the peoples and of the conditions in distant lands.

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Libraries offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

Advanced studies in History, Economics, and Sociology, as well as a reading knowledge of the modern languages, are important to all students of Geography, and the attention of such students is called to the announcements in those departments.

The Graduate School of Geography aims to promote, in every way possible, productive scholarship, and to train those who wish to enter the profession to become leaders in their chosen fields of work.

The publication of *Economic Geography*, issued quarterly, was begun in 1925.

A complete statement regarding tuition and expenses, Fellowships and Scholarships, and general conditions of work will be found on pages 29 and 61.

Undergraduates planning to go on into graduate work in Geography are urged to consult the Geography Staff early in their undergraduate course, so that such fundamentals as Physics, Chemistry, Biology, Geology, English, German, French, Economics and History will not be neglected.



## GEOGRAPHY COURSES FOR COLLEGE STUDENTS

For a major in Geography the following sequence of courses through the four years is recommended:

*First year:*

Fundamentals of Geography (Geog. 10a) First semester.

Geography of North America (Geog. 181b) or Geography of Europe (Geog. 185b) Second semester.

*Second and Third (or Fourth) years:*

Weather and Climate (Geog. 12) Through the year.

General Geology (Geol. 12) Through the year.

Conservation of Natural Resources (Geog. 100a) First Semester.

Geography of Europe (Geog. 185b) or Geography of North America (Geog. 181b) Second Semester.

*Fourth year:*

Economic Geography (Geog. 26a) First semester.

Geography in Education (Geog. 29b) Second semester.

The Geography of North America and of Europe are given alternate years, North America in 1930-31, and Europe 1931-32. Weather and Climate, also given in alternate years, is offered in 1930-31. All other courses are given every year.

For a minor in Geography, the Fundamentals and either North America or Europe are recommended for the first year, Weather and Climate or General Geology for the second, and Conservation of Natural Resources or Economic Geography and a regional course for the third.

Additional courses recommended for majors or minors in Geography are as follows:

*Freshman year:*

General Physics (Physics 11) Through the year.

*Sophomore or Junior years:*

Principles of Economics (Ec. 11) Through the year.

A Survey of International Relations (Hist. 18) Through the year.

*Senior year:*

The Historical Geography of the United States (Hist. 211a) First semester.

Courses on the Passing Weather (Geog. 221) and Meteorology

(Geog. 22), following that on Weather and Climate (Geog 12), are open to Juniors and Seniors, while still more advanced work, in Physics of the Air (Physics 29), may be had in the department of Physics.

German and French, one for two years and the other for three, English for at least two years, Ancient and Modern History, Chemistry, and Biology or Botany are also recommended as collegiate foundations for advanced work in Geography.

### ADMISSION TO THE GRADUATE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in Geography, and who are qualified to enter the Graduate Division of the University and take advanced work in Geography. Undergraduate preparation for advanced work, as indicated by the college programs above, should include the following subjects:

Geology	Economics
Physics	History
Weather and Climate	Fundamentals and Regional
Biology, esp. Ecology	Geography
Chemistry	English, two years
	French or German, two years

Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the A.M. degree two years will be required, except for those whose preparation the faculty considers sufficient to permit them to qualify in less time.

A special feature of the program of geography courses is the rather closely synchronized sequence on the physiography, climatology, plant geography and agriculture of the various regions of the Eastern Hemisphere one year and of the regions of North America another. Coupled with the courses on geographic aspects of world trade and of the foreign trade of the United States, in corresponding years, these sequences constitute a sort of super-course on regional geography. The schedule is so arranged that on Mondays and Wednesdays the second semester, the physiography comes at 9, the climatology at 10, the plant geography at 11, and the agricultural geography at 2—all as nearly as possible for

the same regions on the same days. The World group of courses will be offered in 1931-32.

In the Summer School each year many members of the geography staff offer both elementary and advanced courses. These are acceptable both for preparation for graduate work and for meeting in part the requirements for the degree of Master of Arts.

## GEOGRAPHY COURSES FOR GRADUATE STUDENTS

### *Offerings for first year students*

First Semester	Second Semester
Field Methods and Studies (Geog. 392a)	North America (Altern. years): Physiographic Regions (Geog. 311b)
Interpretation of Physiographic Features (Geog. 21a)	Climate (Geog. 321b)
Climatology (Geog. 22a)	Plant Regions (Geog. 341b)
Taxonomy and Ecology of Plants (Biol. 24a)	Agricultural Regions (Geog. 351b)
Agricultural Geography and Land Utilization (Geog. 25a)	Geographic Aspects of U. S. Foreign Trade (Geog. 362b) Alt. yrs.)
Economic Geography (Geog. 26a)	Geography in Education (Geog. 29b)
	Physical Oceanography (Geog. 210b)
Through the year	
Passing Weather (Geog. 221)	
Thesis Seminar (Geog. 30)	

### *Offerings for second year students*

First Semester	Second Semester
Field Methods and Studies (Geog. 392a)	Eastern Hemisphere (Alt. yrs.): Physiographic Regions (Geog. 319b)
Soils (33a)	Climate (329b)
Plant Geography (24a)	Plant Regions (349b)
Principles of Anthropogeogra- phy (Geog. 37a) (Alt. yrs.)	Agricultural Regions (359b)

Caribbean America (Geog. 383a) (Alt. yrs.)	Geographic Aspects of World Trade (Geog. 369b) (Alt. yrs.)
Industrial Geography (Geog. 36a) (Alt. yrs.)	Geography of South America (Geog. 384b)
Cartography and Graphics (290a)	
Physics of the Air (Phys. 29b)	
	Through the year
	Passing Weather (Geog. 221)
	Thesis Seminar (Geog. 30)

*Offerings for third year students*

Field Methods and Studies (Geog. 392a) First semester  
 Geography of the Mediterranean Region (Geog. 376a) First semester. (Alternate years)  
 Senior Seminar (Geog. 300) Through the year  
 Research in Special Fields

COURSES IN ECONOMICS AND HISTORY OF  
 INTEREST TO GEOGRAPHY STUDENTS

Economic History of Western Europe (Ec. 14a) (Alt. yrs.)  
 Economic History of the United States (Ec. 14b) (Alt. yrs.)  
 Statistics (Ec. 16)  
 International Trade and International Finance (Ec. 27a)  
 International Economic Policies (Ec. 31) (Alt. yrs.)  
 Land Economics (Ec. 32) (Alt. yrs.)  
 Historical Geography of the United States (Hist. 211a)  
 Pacific and Far East (Hist. 22)  
 British India (Hist. 25a)  
 Latin America (Hist. 27)

REQUIREMENTS FOR A.M. AND PH.D. DEGREES  
 IN GEOGRAPHY

All candidates for degrees in Geography who are in residence will be expected to attend the Field Camp for three weeks each autumn, and during the year to take part in the Thesis and Senior Seminars. Formal Geography course work in mid-winter ends



January 15, and in spring May 1, leaving students free to read and to coordinate their work prior to the examination periods.

Candidates for the Master's degree in Geography will be expected to pass written examinations and a general oral examination in the following fields: Physiography, Climatology, Soils, Plant Geography, Land Utilization and Agricultural Geography, Economic Geography, Anthropogeography, Regional Geography, and Geography in Education.

Candidates for the Doctor's degree in Geography will be expected to pass more advanced written examinations, and a general oral examination including the broad foundation required for the Master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of work beyond the Master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation. This year of course work may well include, besides certain advanced courses in Geography, related advanced studies in History and International Relations, Economics, or Physics. The student is given much freedom of choice. It is by February 1 during this year prior to the final one for the doctorate that the prospective candidate for the doctorate will be expected to show a reading knowledge of German and French,<sup>1</sup> the two foreign languages most important for American geographers to know. A careful reading of the language requirements in the announcement of the Graduate Division is recommended.

## STUDENTS' FEES

All Geography students in residence must meet the Camp fee, the Workroom fee, and a Classroom Materials fee. The Camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to Camp till it returns at the end of the three

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<sup>1</sup>While German and French will normally be the two languages required an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

weeks' period. The fee is \$75.00, payable October 1 to the Camp treasurer.

The Workroom fee is in the nature of a laboratory fee, and it is assessed to help maintain the Geography Workroom and its equipment. Each graduate student in residence has a desk, shelf-space, and a section of an alcove in the Workroom. The files of maps, the card catalog, and the Libbey Library and Bibliography are at hand. A section of the Workroom is also given over to drafting tables with a large and varied equipment of drafting instruments, which are available for the use of students. There are also adding and computing machines. The Workroom fee is \$5.00 a semester, payable November 1 and March 1, to the departmental stenographer.

The Classroom Materials fee is for mimeographed outlines, abstracts, summaries, and chapters of theses in the various courses and in the seminars. It also provides in part for the maintenance of the classroom wall-maps and other equipment. All students in residence receive the mimeographed material for all courses whether they attend or not. Furthermore, this fee covers the small expense of balloons and hydrogen and of some meteorological instruments in connection with the informal 15-minute daily weather meetings. The Classroom Materials fee is \$5 each semester, payable November 1 and March 1, to the departmental stenographer.

Candidates for the degrees of Master of Arts and Doctor of Philosophy are here reminded of their candidacy and publication fees totalling \$20.00 for the A.M. and \$40.00 for the Ph.D., payable to the Bursar by Master's candidates at the beginning of the second semester and by Doctor's candidates early in the first semester of the academic year in which they expect to receive the degree.

#### ASSISTANCE BY SCHOLARS AND FELLOWS

Scholars and Fellows are expected to assist in the research or other work of the Department to an extent of about 3 hours a week, though never more than 6 in any week unless to concentrate the assistance. The opportunities for assistance will be posted at the beginning of the year, and this work will be assigned as nearly

as possible according to the interests of the Scholars and Fellows and in such a way as to be of benefit to them as well as to the Department.

## COURSES IN GEOGRAPHY

### 1. PRIMARILY FOR UNDERGRADUATES

**10a. Fundamentals of Geography.** A first course in college geography dealing with the geographic factors and geographic principles necessary to the understanding of the relationships existing between man and his natural environment. A world view of geography forming a good basis for all later courses.

Open to Freshmen.

*Three hours*, first semester. M. W. F., 9.

PROFESSOR RIDGLEY

**100a. Conservation of Natural Resources.** A study of the natural resources of the United States, including forest resources, minerals, soils, water resources, and other topics. A consideration of the original supply of natural resources, their uses to the present time, and their future possibilities. A comparison of the natural resources of the United States with those of other countries of the world.

*Three hours*, first semester. M. W. F., 8.

PROFESSOR RIDGLEY

**181b. Geography of North America.** An introduction to the study of continental areas. A treatment of the continent as a whole followed by regional studies from various points of view. A desirable foundation for the more advanced and more specialized courses in North America and other continents.

Open to Freshmen. [Prerequisite Geog. 10 or equivalent].

*Three hours*, second semester. M. W. F., 9.

PROFESSOR RIDGLEY

**185b. Geography of Europe.**

Open to Freshmen. [Prerequisite Geog. 10 or equivalent].

*Three hours*, second semester. M. W. F., 8.

Omitted in 1930-31.

PROFESSOR RIDGLEY

**Geology 12. General Geology.** See page 130.

*Three hours*, through the year. M. W. F., 8; F. 2.

PROFESSOR LITTLE

**12. Weather and Climate.** This course aims (1) to give the student an understanding of weather processes, largely through watching the passing weather; (2) to train him in daily forecasting; (3) to show how various weather combinations make up the several types of climate; and (4) all through the year to bring out the intimate effects of the weather on all sorts of human affairs. Elementary Meteorology is taken up systematically during the first semester, and elementary Climatology the second.

*Three hours*, through the year. Tu. Th. S., 8; Tu. 11 or 2.

In 1931-32, T. W. T. F., 12; and one or two lab. hrs., to be arranged.

Daily ceiling balloon flights.

PROFESSOR BROOKS, ASSISTED BY MR. PITKIN

**Geology 121a. Mineralogy.** See page 130.

*Three hours*, first semester.

PROFESSOR LITTLE

To be offered in 1931-32.

**Geology 122b. Economic Geology.** See page 131.

*Three hours*, second semester.

PROFESSOR LITTLE

Omitted in 1930-31.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**21a. Interpretation of Physiographic Features.** A lecture, field and laboratory course designed to acquaint the student with the principles of physiography in such a way that he can apply them in the field or in map interpretation.

Prerequisite: Geology 12, or equivalent in Physiography.

*Two hours*, first semester. M. W., 9; Tu., 2-3:30.

PROFESSOR ATWOOD AND DR. CRESSEY

**210. Physical Oceanography.**

Prerequisite: Geology 12.

*One hour*, second semester, to be arranged. PROFESSOR BROOKS

**22. Climatology.** A study of principles, brought home by original observations and by compilation, graphing and mapping climatic data and interpreting the results.



Prerequisite: Geography 12 or equivalent.

*Two hours*, M. W., 10; M., 2-3:30.

PROFESSOR BROOKS

**221. The Passing Weather.** Daily outdoor meeting, including an observation of the weather; a ceiling balloon flight; discussion and interpretation of the weather for the past 24 hours from local observations, weather maps and reports; and weather forecast for the following night and next day. Members of this class will be responsible for the operation of the University meteorological observatory.

Prerequisite: Geog. 12 or equivalent.

*One hour*, through the year. Daily 12-12:15, and occasional other periods.

PROFESSOR BROOKS

**Physics 29b. Selected Studies in Physics of the Air.** An opportunity for a more profound study of certain phases of meteorology, based on W. J. Humphreys' "Physics of the Air."

Prerequisite: Geography 220a.

*One hour*, second semester. To be arranged.

Omitted in 1930-31.

PROFESSOR BROOKS AND ASST. PROFESSOR ROOPE

**Botany 24a. General Botany treated from a Taxonomic and Ecologic Standpoint.** (See page 105).

*Three hours*, first semester. ASSISTANT PROFESSOR POTTER

Omitted in 1930-31.

**24a. Plant Geography.** The responses of plants and plant groups to the factors of physical environment and their inter-relationships. The physical bases of plant distribution.

Prerequisites: Botany 24a or equivalent, Geology 12 or equivalent in physiography, and Geography 12 or equivalent.

*Two hours*, first semester, M. W., 11; one hour, second semester, Tu. 11. Omitted 1930-31.

PROFESSOR EKBLAW

**25a. Agricultural Geography and Land Utilization.** A course in the relation of physical environments to the character of land utilization, and to the various types of land use; the physical and economic factors that enter into the delimitation of agricultural

regions; the influences of relief, climate, soil, and other physical factors upon the distribution of crops; the economic interdependence of the various regions of the United States.

Perequisite: Geography 10, or equivalent.

*Two hours*, first semester. M. W., 2. PROFESSOR EKBLAW

Omitted in 1930-31.

**26a. Economic Geography.** A study of the relation of physical and economic conditions to the production, and trade in selected important agricultural, forest, mineral, and manufactured products of the world; emphasis will be placed on the regional aspect of the commodities, and on the combinations in producing complex agricultural and manufacturing regions. Prerequisites: Geog. 10a, 181b, 184b, 290a, and Geol. 12.

*Three hours*, first semester. T. Th. S. 10. PROFESSOR JONES

**280a. Geography of the British Empire.** M. T. W. 5.

PROFESSOR FAWCETT

**285a. Geography of Europe.** M. T. W. 11

PROFESSOR FAWCETT

**290a. Cartography and Graphics.** Principles and practice of map-making, constructing of diagrams, and relief drawings.

Open only to students majoring in Geography.

*One hour*, first semester.

Omitted in 1930-31. PROFESSOR ATWOOD AND MR. BURNHAM

**29b. Geography in Education.** A survey of geography in the present-day American school system, including elementary school, high school, teacher-training institutions, colleges and universities; examination and comparison of present courses of study in each group of schools; problems of high school and normal school emphasized; designed to meet the needs of those expecting to teach Geography.

Prerequisites: Geography 10a and other geography courses totaling at least 18 hours.

*Three hours*, second semester. M. T. W. 8.

PROFESSOR RIDGLEY

## 3. EXCLUSIVELY FOR GRADUATE STUDENTS

**30. Thesis Seminar in Geography.** Candidates for Master's and Doctor's degrees are directed in selection of themes for theses. Outlines of theses are here presented for criticism, followed by presentations of successive chapters as these are prepared. Members of the staff lead the discussion, which is participated in by all members of the Seminar.

*Two hours, through the year. W., 2:45-4:30. STAFF*

**300. Senior Seminar in Geography.** Meetings for discussion of contemporary advances in geography.

*One hour, through the year. Alternating with Thesis Seminar W., 2:45-4:30. STAFF*

**310. Research in Regional Physiography.** A critical review of the source material on Physiography and of the leading contributions made by those who have developed this phase of geographic investigation.

PROFESSOR ATWOOD

**311b. Physiographic Regions of North America.**

Prerequisite: Geography 21a or equivalent.

*Two hours, second semester. M. W., 9; Tu. 2-3:30.*

To be omitted in 1931-32, to be offered 1932-33.

PROFESSOR ATWOOD AND DR. CRESSEY

**319b. Physiographic Regions of the Eastern Hemisphere.**

Prerequisite: Geography 21a or equivalent.

*Two hours, second semester, M. W., 9.*

Omitted in 1930-31, to be offered 1931-32.

PROFESSOR ATWOOD AND ASSISTANT

**320. Research in Climatology or Climates of the World.** Special studies in the climates of particular regions or in comparative climatology.

PROFESSOR BROOKS

**321b. Climatology of North America.** Factors controlling the distribution of climates in North America. The climatic regions and explanations of their characteristics. Original studies.

Prerequisite: Geog. 22a or equivalent.

*Two hours, second semester. M. T. W. T., 10.*

To be omitted in 1931-32.

PROFESSOR BROOKS

**329b. Climate of the Eastern Hemisphere.**

Prerequisite: Geography 22a or equivalent.

*Two hours*, second semester. M. W., 10.

Omitted in 1930-31, to be given in 1931-32. PROFESSOR BROOKS

**33a. Soil Geography.** Geographic types of soils, their mode of formation and distribution. Soil regions in relation to relief, climate, vegetation, and agriculture. DR. MARBUT

**330. Research in soils.** DR. MARBUT

**340. Research in Plant Geography.** PROFESSOR EKBLAW

**341b. Plant Regions of North America.** An intensive study of plant distribution in North America.

Prerequisite: Geography 24a.

*Two hours*, second semester, M. W., 11.

PROFESSOR EKBLAW

**349b. Plant Regions of the Eastern Hemisphere.** The distribution of plants, plant types and plant groups in response to physical factors, and its effect upon human activities.

Prerequisite: Geography 24a.

*Two hours*, second semester. M. W., 11.

Omitted in 1930-31. PROFESSOR EKBLAW

**350. Research in Agricultural Geography or Land Utilization.** PROFESSOR EKBLAW

**351b. Agricultural Regions of North America.**

Prerequisites: Geography 21a, 25a, and approved courses in Economics.

*Two hours*, second semester. M. W., 2. PROFESSOR EKBLAW**359b. Agricultural Regions of the Eastern Hemisphere.**

Prerequisites: Geography 21a, 25a, and approved courses in Economics.

Omitted in 1930-31. PROFESSOR EKBLAW

**36b. Industrial Geography.** A research and lecture course on the leading manufacturing industries of the world; an analysis of the essentials of manufacturing; the sources of power; the



iron and steel industries, including the alloy minerals; the automobile industry; agricultural machinery; electrical machinery; textile machinery; the textile industries; and other selected industries. In the study of these industries emphasis will be placed on the location, raw materials, power, labor, capital, type of product, and other conditions influencing the evolution of the industry. The course will conclude with an analysis of the chief manufacturing regions of the world.

Prerequisite: Geography 26a and 21a or 22a.

*Two hours*, first semester. M. W., 2. PROFESSOR JONES

Omitted in 1930-31, to be given in 1931-32.

### 360. Research in Industrial or Commercial Geography.

PROFESSOR JONES

### 362b. Geographic Aspects of United States Foreign Trade.

*Two hours*, second semester. T. Th., 11. PROFESSOR JONES

**369b. Geographic Aspects of World Trade.** Geographic bases of modern world trade; major commercial divisions and trade regions of the world; the flow of commodities by commercial divisions and trade regions; an analysis of the major movements in leading world commercial products; the chief world trade routes; an analysis in some detail of the trends of trade in selected regions.

*Two hours*, second semester. M. W., 8.

Omitted in 1930-31, to be given in 1931-32.

PROFESSOR JONES

\*

**37b. General Principles of Anthropogeography.** This course considers the operation of geographic factors in the economic, social and political development of peoples; the influences of location, area, relief, coastlines, drainage systems, climate, and other geographic conditions both separately and in their mutual interplay. Ellen C. Semple's *Influences of Geographical Environment* will be used as a text.

Prerequisites: 9 hours of Geography or History and permission of the instructor.

*Three hours*, second semester. M. T. W., 12.

Omitted in 1930-31.

PROFESSOR EKBLAW

\* course began 11/14/31

**History 211a. Historical Geography of the United States.**  
*Three hours*, first semester. M. W. F., 11.

PROFESSOR HEDGES

Omitted in 1930-31; to be offered in 1931-32.

**370. Research in Anthropogeography.** PROFESSOR EKBLAW

**375a. Geography of Europe.** This course includes a study of the climate, relief, coastline and marginal seas of the continent as a whole, to be followed by a detailed consideration of the ethnic, economic and political geography of the Eastern European states. These include Finland, Poland, Roumania and the Soviet Republics.

Prerequisite: 6 hours of European history.

*Two hours*, first semester. M. W., 4.

Omitted in 1930-31.

**376a. The Geography of the Mediterranean Region**, especially in relation to Ancient History. Lectures and assigned readings. A geographical interpretation of ancient history in Mediterranean lands, embracing a study of the various geographic factors operative in the countries bordering this enclosed sea under the peculiar influences of the Mediterranean climate, at a time when the Mediterranean constituted most of the known world.

Prerequisites: 9 hours of Geography or History, and permission of instructor.

*Three hours*, first semester. M. T. W., 10.

Omitted in 1930-31. To be offered in 1931-32 by Miss Baugh, Visiting Lecturer.

**380. Research in Regional Geography.**

One or more members of the STAFF

**383a. Caribbean America.** A lecture and research course on the geography of Mexico, the Central American states, and the islands bordering the Caribbean Sea; the historical background of the republics and the islands of the Caribbean; the major geographic regions of the different countries; the economic positions of the republics and islands; economic and other problems facing

the various regions; the expansion of the United States into the Caribbean; the commercial importance of the various republics and islands as a market for manufactured wares and as a source of foodstuffs and raw materials.

*Three hours*, first semester. M. T. T., 9. PROFESSOR JONES

**384b. South America.** A geographic survey of the continent of South America; the major physiographic regions and the chief climatic types; the distribution of vegetation; transportation; the population; the major problems facing the South American republics; the major geographic regions of the several countries; South America as a source of raw materials and foodstuffs and as a market for manufactured wares.

*Three hours*, second semester. T. T. S., 9. PROFESSOR JONES

**History 22. The Pacific and the Far East.** See page 126.

*Three hours*, through the year. M. W. F., 10.

PROFESSOR BLAKESLEE

**392a. Field Methods and Studies.** An intensive field study of a portion of the Connecticut Valley in Massachusetts. Required of all candidates for graduate degrees in geography who have not previously had a field course or field experience equivalent to this.

## HOME STUDY COURSES IN GEOGRAPHY

There are many teaching Geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of Geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people. It is necessary for all teachers of Geography who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of Geography, and therefore, in addition to the regular resident courses and the Summer

school work, is offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

## COURSES

1. The Teaching of Geography in the Elementary School.
- 1a. The Teaching of Geography based on the New York State Syllabus. Grades 3, 4, 5, and 6.
2. The Teaching of Home Geography and World as a Whole
- 2a. The Teaching of Third Grade Geography based on the New York State Syllabus.
3. The Teaching of North America.
4. The Teaching of South America, Europe and Asia.
5. The Teaching of Geographic Factors and the United States in its World Relations.
- 5a. Visual Aids in Teaching.
6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
- 9a. Home Study Course for European Travel.
10. Geography of the Eastern Continents.
11. The Physical Geography of the Lands.
12. Weather.
13. Elements of Climatology.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

## CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.



The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within 12 months.

Further information about these courses will be sent upon the receipt of a request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

## THE SUMMER SCHOOL

The session of 1931 will begin June 29 and end August 7. Instruction will be offered in Geography, Geology, History, Economics, and English.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered. Work done in the Summer School may be counted, subject to the regulations of the Collegiate and the Graduate Boards and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a Bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week and thirty-five dollars for two or more courses. Rooms in the vicinity of the University cost from three dollars a week up, and the University Dining Hall provides board at a reasonable rate.

*The Summer School Bulletin*, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1930 will be found in the Register at the end of this catalogue.

### FIELD TRIPS IN GEOGRAPHY AND HISTORY

The field trips of 1931 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors.

**SS204. Fourth Transcontinental Field Trip.** The members of the Transcontinental Field Trip will assemble at Clark University on Friday, July 3, for preliminary conferences. The

party will leave on Saturday, July 4, for a journey of 13,000 miles during a period of 45 days, closing the trip at New York City.

Travel will be by train from Worcester to Vancouver over the Canadian Pacific railroad; by boat to Alaska, and return to Seattle; by motor coach to Los Angeles; by Panama-Pacific steamship line to New York with shore trips at Panama and Havana.

This trip will be in charge of Dr. Langdon White, Professor of Geography, Randolph-Macon Woman's College, Lynchburg, Virginia. Mrs. White will accompany the party as chaperone.

The cost of the trip is \$750, including tuition, transportation from Worcester back to New York City, hotel and meals while on the trip.

**202. Caribbean Field Trip.** The members of the Caribbean Field Trip will assemble in New York City on Friday, July 3, and sail on Saturday, July 4. Shore trips will be made at Havana, Costa Rica, Panama Canal Zone, four ports in Colombia, Kingston, and Santiago. The journey will be of 38 days duration, and the distance traveled will be 5,000 miles. The cost of the trip is \$540 to \$620 depending on location of stateroom and the number of persons in the room.

This trip will be in charge of Dr. Clarence F. Jones of Clark University. Mrs. Jones will accompany the party as chaperone.

## FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

**Middle States, Maryland and Virginia Field Trip.** Friday, August 7, 2 P. M. to Saturday, August 22, 16 days. The route: Worcester, Mohawk Trail, Hudson Valley, New York, Princeton, Trenton, Philadelphia, Baltimore, Washington, Fredericksburg, Yorktown, Jamestown, Richmond, Harper's Ferry, Gettysburg, Lancaster, Delaware Water Gap, Danbury, Hartford, Worcester. The party will leave Clark University at 2 P. M., Friday, August 7, and return to Worcester, Saturday, August 22.

This trip will be in charge of Professor Edgar C. Bye, State Teachers College, Montclair, N. J., instructor in History, Clark University Summer School.

The cost of the trip is \$15 for tuition and \$70 for transportation.

Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals should be well under \$5 per day.

**Canadian Field Trip for New York State Teachers.** Saturday, August 8, to Friday, August 21, 14 days.

This trip starts at Oswego, New York, follows the historic Saint Lawrence Valley, proceeds to Halifax, and returns by a more southern route to Oswego.

This trip is in charge of Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. The party will leave the Oswego Normal School at 8 A. M., Saturday, August 8, and return to Oswego, Friday, August 21.

The cost of this trip is \$15 for tuition and \$60 for transportation.

Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals will probably not exceed \$60.

**Canadian Field Trip for Connecticut Teachers.** Saturday, August 8, to Friday, August 28, 21 days.

This trip starts at New Britain, Connecticut, proceeds along the New England shore to the Bay of Fundy, thence to Halifax, returning through Quebec, and the White Mountains, to Worcester and New Britain.

This trip is in charge of Professor George F. Howe, Head of the Geography Department, State Normal School, New Britain, Connecticut. The party will leave the New Britain Normal School at 8 A. M., Saturday, August 8, and return to New Britain, Friday, August 28.

The cost of this trip is \$20 for tuition and \$100 for transportation.

Each person will pay for his own hotel and meals. Hotel reservations will be made in advance. Cost of hotel and meals will probably not exceed \$80.



## OFFICERS OF INSTRUCTION AND ADMINISTRATION

- WALLACE WALTER ATWOOD, PH.D. Geography  
President of Clark University and Director of the Graduate School of Geography.
- DOUGLAS CLAY RIDGLEY, PH.D. Geography  
Director of the Summer School and Professor of Geography in Education, Clark University.
- CHARLES FRANKLIN BROOKS, PH.D. Meteorology and Climatology  
Professor of Meteorology and Climatology, Clark University.
- CLARENCE FIELDEN JONES, PH.D. Geography  
Professor of Economic Geography, Clark University.
- W. ELMER EKBLAW, PH.D. Geography  
Professor of Geography, Clark University.
- CLARENCE EUGENE KOEPPE, PH.D. Meteorology and Climatology  
Head of Department of Geography, State Teachers College, Springfield, Missouri.
- CHARLES LANGDON WHITE, PH.D. Geography  
Head of Department of Geography, Randolph-Macon Woman's College.
- GUY H. BURNHAM, A.M. Cartography  
Cartographer, Clark University.
- HOMER PAYSON LITTLE, PH.D. Geology  
Dean of the College and Professor of Geology, Clark University.
- DWIGHT E. LEE, PH.D. History  
Assistant Professor of European History, Clark University.
- EDGAR C. BYE, A.M. History  
Professor of Social Studies, State Teachers' College, Montclair, New Jersey.
- SAMUEL J. BRANDENBURG, PH.D. Economics  
Professor of Economics and Sociology, Clark University
- ROBERT S. ILLINGWORTH, A.M. English  
Headmaster, Swavely School, Manassas, Virginia.

EUGENE C. BELKNAP Source Material in Economic Geography  
Curator, Department of Chemistry, Clark University.

CAREY EYSTER MELVILLE

Registrar

FLORENCE CHANDLER

Bursar

### LIST OF COURSES

The starred courses (\*) are those definitely intended, by the department concerned, for students who are candidates for the degree of Master of Arts in Clark University, but the courses are not restricted to such students.

### GEOGRAPHY

- |   |                             |
|---|-----------------------------|
| SS11. Field Work in Geography.                      | DR. EKBLAW                  |
| SS12. Weather.                                      | DR. KOEPPE                  |
| SS119. World Geography.                             | PRESIDENT ATWOOD            |
| SS112. Climate.                                     | DR. KOEPPE                  |
| SS180. Visual Aids in Geography and History         |                             |
|   | DR. RIDGLEY AND MR. BELKNAP |
| SS181 The Teaching of Geography.                    | DR. RIDGLEY                 |
| SS190. Mathematical Geography.                      | MR. BURNHAM                 |
| SS191. Graphics and Cartography.                    | MR. BURNHAM                 |
| *SS28. Geography in Education for Special Teachers. |                             |
|   | DR. RIDGLEY                 |
| *SS237. Influences of Geographic Environment.       | DR. EKBLAW                  |
| *SS281. Geography of North America.                 | PRESIDENT ATWOOD            |
| *SS285. Geography of Europe.                        | DR. EKBLAW                  |
| *SS30. Seminar in Geography.                        | THE GEOGRAPHY STAFF         |
| *SS32. Research in Climatology.                     | DR. BROOKS                  |
| *SS37. Research in Anthropogeography.               | DR. EKBLAW                  |
| *SS300. Research in Regional Geography.             |                             |
|   | PRESIDENT ATWOOD            |

### GEOLOGY

- |                        |            |
|------------------------|------------|
| SS1. Physical Geology. | DR. LITTLE |
|------------------------|------------|

### HISTORY

- |  |               |
|--|---------------|
| SS11. Observational History of Massachusetts |               |
|  | PROFESSOR BYE |
| SS16. The Teaching of History.               | PROFESSOR BYE |

SS116 American Life and History, 1607-1783.

PROFESSOR BYE

\*SS21. History of Europe, 1500-1815.

DR. LEE

\*SS22. Recent International Relations of Europe.

DR. LEE

### ECONOMICS

SS1. Problems of Economics.

DR. BRANDENBURG

\*SS4. Economic History of United States.

DR. BRANDENBURG

### ENGLISH

SS1. Contemporary Drama.

MR. ILLINGWORTH

SS2. Public Speaking.

MR. ILLINGWORTH

SS3. Oral Interpretation of Literature.

MR. ILLINGWORTH

# THE BACHELOR OF EDUCATION

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course is presupposed and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary credit by attendance at the Summer School or by taking such courses as may be open to them at other times.

A course which meets daily throughout the six weeks of the Summer School is intended to be the equivalent of a course meeting for two one-hour periods throughout a semester during the regular academic year. A normal program for Summer School students consists of three courses. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

*Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.*

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:

- a. At least one year's teaching experience.
- b. At least 30 semester hours of credit earned *in residence* at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.



d. Requirements in particular subjects:

- (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course or its equivalent.
- (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course or its equivalent.
- (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
- (4) Ten semester hours of foreign language, which may be taken in whole or in part in the Normal School course.
- (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course or its equivalent.

3. STANDARD OF SCHOLARSHIP: The same standard of scholarship will be required of candidates for this degree as for the degree of Bachelor of Arts.

4. ADVANCED STANDING:

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours credit may be allowed for home study or extension courses, the acceptance of any work of this type to be subject to the approval of the registrar.

5. LAPSE OF CANDIDACY. By vote of the committee on the degree of Bachelor of Education, candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made

# CLARK UNIVERSITY

## BULLETIN

No. 77

JUNE, 1930

EXTENSION COURSES OF COLLEGE GRADE  
FOR TEACHERS AND OTHERS  
TO BE OFFERED  
IN THE  
FIRST SEMESTER  
1930-31

OPEN TO MEN AND WOMEN. COURSES MEET  
ONCE A WEEK. LATE AFTERNOON AND  
SATURDAY MORNING

# PROGRAM OF COURSES

## MONDAY

- 4:20—6:00 MATHEMATICS. Williams. (Mon. or Tues.)  
7:00—8:40 GERMAN. Bosshard
- 

## TUESDAY

- 4:20—6:00 FRENCH. Churchman
- 

## WEDNESDAY

- 4:20—6:00 SURVEY COURSE IN SOCIAL WORK.  
Shankweiler  
5:00—6:00 FRENCH SEMINAR
- 

## THURSDAY

- 4:20—6:00 BOTANY. Potter  
PRACTICAL FRENCH. L. L. Atwood  
CARIBBEAN AMERICA. Jones
- 

## FRIDAY

- Open Date Available for courses found to conflict
- 

## SATURDAY

- 10:00-11:40 BOOKS OLD AND NEW. Dodd.
- 

The BULLETIN is published in January, February, March, April, May, June, October, November and December. Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917. authorized January 24 1921.

## Aim and Character of the Extension Work

Clark University will again offer during the academic year 1930-31 a series of Extension Courses. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

In *content* those courses which primarily have the needs of the teacher in view will aim to provide up-to-date, exact, and scholarly surveys of subject matter. An effort will be made to touch also upon *aims* and *methods*, and to provide a background for the solution of practical problems of the classroom.

All of these Extension Courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are strictly of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the Master of Arts degree should secure the approval of their major department in each case.

### Date of Opening

Classes will meet for organization and the beginning of work during the week Sept. 29-Oct. 4,



1930, on the day specified after the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.

## Registration and Charges

Registration involves the filling out of an enrollment card and the paying of a fee. Registration for these courses may be attended to at the first class meeting or earlier, at the Bursar's Office. Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the University Registrar. Matriculated students are given official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

After the second scheduled meeting in any course the names of those who have not completed registration as outlined above will be removed from the class lists unless definite arrangements for postponement of the fee have been made with the Bursar.

All fees are payable before the third meeting of the respective courses, unless arrangements for postponement are made with the Bursar.

In the case of fees not paid before the specified date a late registration fee of one dollar for each week of delay must be paid in addition.

## Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 or 100 minutes. The official hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; one-hour afternoon courses will usually run from 5:00 to 5:50; hours for Saturday courses will be decided by the individual instructors.

**Credit.** When accepted for undergraduate credit in this university, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

Regular outside preparation or collateral reading is expected in every course, except in the case of auditors. This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as auditors.

For further information, address:—

C. E. MELVILLE, *Registrar.*

## LIST OF COURSES

**NOTE:** Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

## Biology

1. BOTANY—A study of the major groups of the Plant Kingdom. The first semester will be devoted to a consideration of the structure and function of plants, their classification and their relation to their environment. The first part of the second semester will be spent in a study of type specimens of the slime moulds, bacteria, blue green algae, the true algae, fungi, mosses, ferns and club mosses. The last half of the semester will be devoted to an introduction to Systematic Botany. Methods of collecting, pressing and mounting will be treated, together with practice in the use of keys for the purpose of identification and classification of plants. (This course continues through the year, but either semester may be taken separately).

*Two semester hours each semester*

*Thursdays, 4:20-6:00*

DAVID POTTER

## English

BOOKS OLD AND NEW. Lectures on recent and worthwhile books—biography, drama, poetry, essays and novels—against a background of similar older books. At least some fifteen or sixteen of the new books will be treated in this way, together with comment on the lives of their authors. Students will have the option of reading these books or others from an assigned list on the library shelves, and written reports on this reading will be required from those who wish credit for the course. The course is open also to those who wish, as auditors, merely to listen to the lectures.

*Two semester hours*

*Saturdays, 10:00-11:40*

L. H. DODD

## French

NOTE 1. Only one of the courses numbered 1 and 2 will be given. The choice will depend upon the quality and extent of the demand.

NOTE 2. Teachers and other advanced students may take either Course 1 or Course 2 for credit, provided they do certain assigned "background work" in phonetics and grammar and hand in regular reports on books on the methods of teaching modern languages.

1. ELEMENTARY COURSE.—A general introduction to the language, with reading ability as its ultimate aim, but using oral work based on phonetics, and making a careful study of the fundamentals of the grammar, with application to spoken and written French. Churchman's *Phonetic Gateway to French*; Fraser and Squair's *New Elementary French Grammar*. A course for beginners, which may also be taken for second-year credit by those who do specified "background work" in more advanced texts.

*Two semester hours*

*Tuesdays, 4:20-6:00*

P. H. CHURCHMAN

2. INTERMEDIATE COURSE.—A continuation of the beginners' course given in 1929-30. After a review of phonetics in the Churchman-Hacker *First Phonetic French Course*, and a rapid survey of material covered in the elementary course, work will be resumed in the Fraser and Squair *New Elementary French Grammar* and Greenberg's *Silent French Reader*, at the point reached in June, 1930. The general nature of the course is similar to that of the beginners' course, though slightly more difficult. Open to any one with an



elementary knowledge of French. This course may also be taken for third-year credit by students who, in addition to the regular work, do certain assigned "background work."

*Two semester hours*

*Tuesdays, 4:20-6:00*

P. H. CHURCHMAN

3. PRACTICAL FRENCH.—The object of this course is to develop the ability to comprehend spoken French and to express oneself both orally and in writing. Conversation will be developed systematically, and ear-training given through lectures in French. Open to anyone with a knowledge of basic French grammar.

*Two semester hours*

*Thursdays, 4:20-6:00*

LELAND L. ATWOOD

4. SEMINAR. See other notices. No longer an extension course. No fees or credit.

*Wednesdays, 5:00-6:00*

## Geography

CARIBBEAN AMERICA.—A lecture course on the geography of Mexico, the Central American states, and the islands bordering the Caribbean; the historical background of the islands of the Caribbean and the republics of the mainland; the major geographic regions of the different countries; the commercial products of the republics and islands; the expansion of the United States into the Caribbean; the evolution of the regions in Caribbean America since the Spanish-American War; the commercial importance of the various republics and islands as a market for manufactured wares, and as a source of foodstuffs and raw ma-

terial. A number of lectures will be illustrated with slides.

*Two semester hours*

*Thursdays, 4:20-6:00*

C. F. JONES

## German

ELEMENTARY GERMAN.—The main purpose of this course is to develop reading and speaking ability; grammar presented inductively; composition; reading of easy prose.

*Two semester hours*

*Mondays, 7:00-8.40*

H. M. BOSSHARD

## Mathematics

ELEMENTARY MATHEMATICS.—A study of the history of the development of the various branches of mathematics and their practical applications, together with biographical notes on the chief mathematicians who have aided in this development (material especially interesting to teachers in junior and senior high schools).

*Two semester hours*

*Mondays or Tuesdays, 4:20-6:00*

F. B. WILLIAMS

## Sociology

SURVEY COURSE IN SOCIAL WORK.—Evidences of changing philosophy and technique in social work from a comparative study of past and present conditions, with the main emphasis on the contemporary situation, particularly as it relates to local practices. Among the problems analyzed are the expansion of social work activities, defini-

tion of boundary lines, raising of standards, recent achievements in coordination and supervision, professionalization, and the growing recognition of the larger social implications of social work. Intended primarily for social workers and members of allied professions.

*Two semester hours*

*Wednesdays, 4:20-6:00*

P. W. SHANKWEILER

## INSTRUCTORS

L. L. ATWOOD—Assistant Professor of Romance Languages.

HEINRICH M. BOSSHARD—Assistant Professor of German.

P. H. CHURCHMAN—Professor of Romance Languages.

L. H. DODD—Professor of Rhetoric.

C. F. JONES—Professor of Economic Geography.

DAVID POTTER—Assistant Professor of Biology.

P. W. SHANKWEILER—Assistant Professor of Sociology.

F. B. WILLIAMS—Professor of Mathematics.

## FACULTY COMMITTEE ON EXTENSION WORK

S. J. BRANDENBURG

VERNON JONES

H. P. LITTLE

D. C. RIDGLEY

P. H. CHURCHMAN, *Chairman*







# CLARK UNIVERSITY BULLETIN

No. 82

FEBRUARY, 1931

EXTENSION COURSES OF COLLEGE GRADE  
FOR TEACHERS AND OTHERS  
TO BE OFFERED  
IN THE

SECOND SEMESTER  
1930-31

OPEN TO MEN AND WOMEN. COURSES MEET  
ONCE A WEEK. LATE AFTERNOON,  
EVENING AND SATURDAY MORNING

# PROGRAM OF COURSES

## MONDAY

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4:20— 6:00	PRACTICAL FRENCH. Pousland
	PSYCHOLOGY. Willoughby
7:00— 8:40	GERMAN. Bosshard

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## TUESDAY

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4:20— 6:00	INTERMEDIATE FRENCH. Church- man
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## WEDNESDAY

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4:20— 6:00	COMMUNITY ORGANIZATION. Shank- weiler
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## THURSDAY

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4:20— 6:00	ELEMENTARY BOTANY. Potter and Pomerat
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## FRIDAY

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4:20— 6:00	ADVANCED BOTANY. Potter
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## SATURDAY

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10:00—11:40	THE NEW POETRY. Dodd
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The BULLETIN is published in January, February, March, April, May, June, October, November and December. Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

## Aim and Character of the Extension Work

Clark University will again offer during the second semester of this academic year (1930-31) a series of Extension Courses. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

In *content* those courses which primarily have the needs of the teacher in view will aim to provide up-to-date, exact, and scholarly surveys of subject matter. An effort will be made to touch also upon *aims* and *methods*, and to provide a background for the solution of practical problems of the classroom.

All of these Extension Courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are strictly of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the Master of Arts degree should secure the approval of their major department in each case.

### Date of Opening

Classes will meet for organization and the beginning of work during the week Feb. 9-14, 1931,



on the day specified in the description of each course.

**Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.**

## **Registration and Charges**

Registration involves the filling out of an enrollment card and the paying of a fee at the Bursar's office. Registration for these courses may be attended to at the first class meeting or earlier, at the Bursar's office.

Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the University Registrar. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

After the second scheduled meeting in any course the names of those who have not completed registration as outlined above will be removed from the class lists unless definite arrangements for postponement of the fee have been made with the Bursar.

**All fees are payable before the third meeting of the respective courses, unless arrangements for postponement are made with the Bursar.**

In the case of fees not paid before the specified date a late registration fee of one dollar for each week of delay must be paid in addition.

## Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 to 100 minutes. The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; one-hour afternoon courses will usually run from 5:00 to 5:50; hours for Saturday and evening courses will be decided by the individual instructors.

**Credit.** When accepted for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

**Regular outside preparation or collateral reading** is expected in every course, except in the case of auditors. This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as auditors.

In view of the outside work required it is obviously unwise for students who are otherwise

busy to attempt many extension courses. The Clark University Committee on the B.Ed. Degree has recently voted to advise officially all who are carrying a full-time load of teaching not to attempt more than two extension courses at any one time.

For further information, address:—

C. E. MELVILLE, *Registrar*.

## LIST OF COURSES

**NOTE:** Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

### Botany

1. **ELEMENTARY COURSE.** A study of type specimens of the slime moulds, bacteria, blue green algae, the true algae, fungi, mosses, ferns and club mosses. The last half of the semester will be devoted to an introduction to Systematic Botany. Methods of collecting, pressing and mounting will be treated, together with practice in the use of keys for the purpose of identification and classification of plants.

*Two semester hours*

*Thursdays, 4:20-6:00*

MESSRS. POTTER AND POMERAT

2. **ADVANCED COURSE.** A systematic study of the flowering plants, with special emphasis upon our local flora.

*Two semester hours*

*Fridays, 4:20-6:00*

MR. POTTER.

### English

**THE NEW POETRY.** A series of lectures on the remarkable revival of the art of poetry these last

twenty years. Those poets who have taken a distinguished part in the new movement will be considered biographically and critically in the lectures and representative and outstanding examples of their work read to the class. Especial attention will be paid to very recent volumes of verse as indicating the present trend.

The course is designed for those who wish merely to attend as auditors and for those who wish to obtain credit. Auditors are not required to remain after the lecture, which will occupy half the period. In the second half those desiring credit will present oral and written reports, and there will be round-table discussion.

It is planned that at least at one of the meetings some well known contemporary poet shall read from his works and conduct the class discussion.

*Two semester hours*

*Saturdays, 10:00-11:40*

L. H. DODD.

## French

1. INTERMEDIATE COURSE. A continuation of the work of the first semester, open also to new students who have had about two years of high school French and can make arrangements to secure an elementary knowledge of phonetics. Rapid reading from Greenberg's *Silent French Reader*, composition, aural, and oral exercises from Fraser and Squair's *New Elementary French Grammar*, phonetics and pronunciation from Churchman and Hacker's *First Phonetic French Course*. This course may also be taken for third-year credit by students who, in addition to the regular class work, do certain assigned "background work" in the Fraser and Squair *Complete French Grammar*. Advanced credit in methods may be obtained by



adding collateral reading in works on education to the third-year work.

*Two semester hours*

*Tuesdays, 4:20-6:00*

P. H. CHURCHMAN.

2. PRACTICAL FRENCH. The object of this course is to develop the ability to understand spoken French; to provide especial training in the pronunciation of the more difficult sounds of French, such as the *u*, the *r*, the *l*, and the oral and nasal vowels; and to enable the student to gain facility and accuracy both orally and in writing. Ear training will be developed through illustrated lectures in French, and *accent* will be tested and corrected by the methods of descriptive and experimental phonetics. Interesting experimental phonetic apparatus will be demonstrated and used for the correction of persistent *vices de prononciation*. The grading will be based on the performance in written composition that the greatest freedom may be had for individual development in the practical, oral use of the language. Travel lectures on France will frequently be made the more interesting through the use of lantern slides. Open to anyone with a knowledge of basic French grammar.

*Two semester hours*

*Mondays,\* 4:20-6:00*

EDWARD D. T. POUSLAND

3. SEMINAR. See other notices. No longer an extension course. No fees or credit.

*Wednesdays, 5:00-6:00*

## German

The beginner's course will continue through the second semester. This course may be entered by new students.

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\*Day subject to change at the pleasure of the group.

*Two semester hours*

*Mondays, 7:00-8:40*

H. M. BOSSHARD.

## Psychology

THE SEVENTH YEAR. A survey, by the method of library research, report and discussion, of the available factual information on children between the sixth and seventh birthdays. So far as practicable special attention will be given to practical problems confronting students, such as (e.g.) bilingualism, conduct disorders, the measurement of traits, recent trends in educational practice, sex education, exceptional children, etc. A relatively high degree of competence to organize and carry through independent work will be assumed.

*Two semester hours*

*Mondays, 4:20-6:00*

RAYMOND R. WILLOUGHBY.

## Sociology

COMMUNITY ORGANIZATION. A study of the structure, functions, and interrelationships of organized groups and institutions; of dynamic social changes in modern community life and resultant conflict of interests; of experiments in community organization aiming at the closer coordination of neighborhood and community activities,—for example, the school community center movement, the playground and recreation movement, the public health movement, church federations, community councils, etc. Evaluation of the principles involved in various programs for securing community solidarity. Primarily for those in the professions of social work and teaching.

*Two semester hours*

*Wednesdays, 4:20-6:00*

P. W. SHANKWEILER.

## INSTRUCTORS

HEINRICH M. BOSSHARD—Assistant Professor of German.

P. H. CHURCHMAN—Professor of Romance Languages.

L. H. DODD—Professor of Rhetoric.

C. M. POMERAT—Assistant in Biology.

DAVID POTTER—Assistant Professor of Biology.

E. D. T. POUSLAND—Assistant Professor of Romance Languages.

P. W. SHANKWEILER—Assistant Professor of Sociology.

R. R. WILLOUGHBY—Research Associate in Psychology.

## FACULTY COMMITTEE ON EXTENSION WORK

S. J. BRANDENBURG

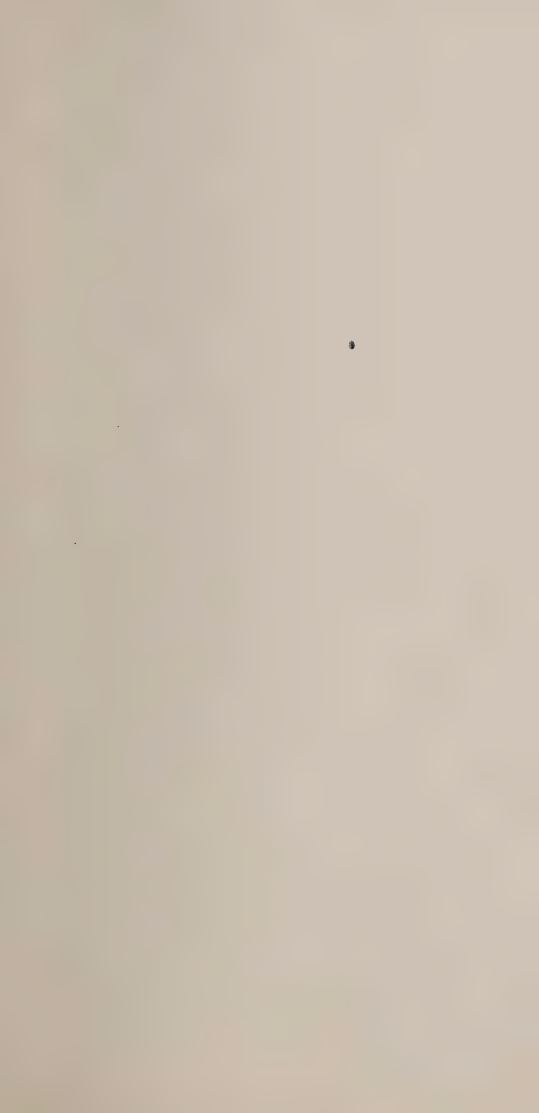
VERNON JONES

H. P. LITTLE

C. E. MELVILLE

D. C. RIDGLEY

P. H. CHURCHMAN, *Chairman*







both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

### SPECIAL COURSES FOR TEACHERS

In keeping with its long established policy, Clark University offers a series of Extension Courses designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises, the subject of aims and methods of teaching is treated in some of these extension courses.

During the academic year 1930-31, the following courses have been given:

#### BIOLOGY

- |                      |            |
|----------------------|------------|
| 1. Elementary Botany | MR. POTTER |
| 2. Advanced Botany   | MR. POTTER |

#### ENGLISH

- |                      |          |
|----------------------|----------|
| 1. Books Old and New | MR. DODD |
| 2. The New Poetry    | MR. DODD |

#### FRENCH

- |                        |               |
|------------------------|---------------|
| 1. Intermediate Course | MR. CHURCHMAN |
| 2. Practical French    | MR. POUSLAND  |
| 3. Seminar             | MR. CHURCHMAN |

#### GEOGRAPHY

- |                      |                 |
|----------------------|-----------------|
| 1. Caribbean America | MR. C. F. JONES |
|----------------------|-----------------|

#### GERMAN

- |                      |              |
|----------------------|--------------|
| 1. Elementary Course | MR. BOSSHARD |
|----------------------|--------------|

#### PSYCHOLOGY

- |                     |                |
|---------------------|----------------|
| 1. The Seventh Year | MR. WILLOUGHBY |
|---------------------|----------------|

#### SOCIOLOGY

- |                                 |                 |
|---------------------------------|-----------------|
| 1. Survey Course in Social Work | MR. SHANKWEILER |
| 2. Community Organization       | MR. SHANKWEILER |

## DEPARTMENTAL ANNOUNCEMENTS

Courses offered by the several departments are listed under three headings :

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).

2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES, designated by numbers beginning with the figure (2).

3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Unless a statement to the contrary is made, all courses listed have been given during the current academic year and will be offered in 1931-32.

Credit for the first semester alone will be given in all courses except in cases where a Department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

### DEPARTMENT OF ANCIENT LANGUAGES\*

PROFESSOR BRACKETT

All courses in Greek and Latin are designed primarily for undergraduates. To any of these courses, however, properly qualified graduate students may be admitted by special permission.

For a major in Ancient Languages the requirement is twenty-four semester hours from the courses described below.

Provision is made in the courses in Greek both for students who have previously studied Greek in the high school, and for those who wish to begin the subject in college. In admitting

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\*No courses in Greek or Latin have been offered during the first semester of 1930-31 in the absence of Professor Brackett, on leave.

students to the college full credit is given for one, two, or three years of high school Greek. Those who have pursued successfully the study of Greek for two or three years may enter directly into course 12. Students who purpose to study Greek in college are strongly advised to take this subject in the preparatory school for two years if possible.

Since a substantial number of students are admitted to the college who have not previously studied Latin, the department from time to time offers to such students an opportunity to take an introductory course in this subject.

## COURSES IN GREEK

### 1. PRIMARILY FOR UNDERGRADUATES

**11. First Year Course.** The purpose of this course is to furnish to students who have never studied Greek an opportunity to begin this subject in college. The course not only has in view the needs of students of language and literature, but in connection with the use of Greek in scientific nomenclature should have value for students of science as well.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 11.

Omitted in 1930-31.

MR. BRACKETT

**12. Xenophon, *Anabasis*; Homer, *Iliad*.** About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the *Iliad*. The aim in this work is distinctly literary. In order that the student may gain an appreciation of the poem as a whole, the entire poem is read, partly in Greek and partly in various verse translations.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 11.

Offered in the second semester, 1930-31.

MR. BRACKETT

**13. The Greek Drama.** Aeschylus, *Prometheus Bound*; Sophocles, *Antigone*; Euripides, *Medea*. This course is designed



to give a general view of Greek tragedy. Lectures or collateral reading deal with the staging of a Greek play, the origin and development of the drama, and the other works of the authors read. Two or three other plays of each of these authors are read in translation and discussed in class.

*Three hours*, through the year. T. Th. S., 10.

Omitted in 1930-31.

MR. BRACKETT

**16b. Greek Tragedy in English.** This course deals with Greek tragedy as represented in the extant works of Aeschylus, Sophocles, and Euripides. All the reading is done in English translations, for the most part in verse. The central aim of the course is an intelligent and appreciative reading of the plays. Much attention is devoted to the connection between Greek and modern drama. The instructor will deal, in lectures, with the origin and development of Greek tragedy, the Greek theatre and related subjects, and Aristotle's theories concerning tragedy.

*Three hours*, second semester. Tu, S, 11. MR. BRACKETT

Offered in the second semester, 1930-31.

**Greek 17a. Greek History.** This course will cover the period from the beginnings of Greek history to 146 B.C. Special emphasis will be devoted to those elements in the history and civilization of Greece which are most significant in the life of the present time.

Open to Freshmen with the consent of the instructor.

*Three hours*, first semester. Tu. Th. S., 11.

Omitted in 1930-31.

MR. BRACKETT

## COURSES IN LATIN

### 1. PRIMARILY FOR UNDERGRADUATES

**11. First Year Course.** This course is designed to give men who have never studied Latin an opportunity to learn the essentials of the subject in college. It is conducted entirely with reference to the needs of the general student and with emphasis on the practical usefulness of an acquaintance with Latin in everyday life.

Open to Freshmen.

Divisible only in special cases with the approval of the Department.

*Three hours*, through the year. M. W. F., 8.

Omitted in 1930-31.

MR. BRACKETT

**12. Catullus**, Selections; **Cicero**, *de Senectute*; **Horace**, Selections from the Odes. The year is about equally divided between the three authors. The study of Catullus and Horace is mainly literary; and in this connection a careful study is made of the nature and principles of literature.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 11.

Offered in the second semester, 1930-31.

MR. BRACKETT

**14b. Letters of Pliny; Selection from the Histories of Tacitus, and from Juvenal.** These authors are read with particular attention to the information the selections contain in regard to literary and social conditions under the empire.

*Three hours*, second semester.

MR. BRACKETT

Omitted in 1930-31.

**15a. Selections from Caesar and Cicero.** This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

*Three hours*, first semester. M. W. F., 8.

MR. BRACKETT

Omitted in 1930-31.

**15b. Selections from Ovid's *Metamorphoses*.**

*Three hours*, second semester. M. W. F., 8. MR. BRACKETT

Omitted in 1929-30.

**16a. Lucretius, *de Rerum Natura*, Selections.**

*Three hours*, first semester. M. W. F., 8.

MR. BRACKETT

Omitted in 1930-31.

**Latin 17b. Roman History.** This course will deal with the history of Rome from the earliest period to the downfall of the Western Roman Empire, with special emphasis upon those aspects of the history which have permanently influenced western civilization.

Open to Freshmen with the consent of the instructor.

*Three hours*, second semester. Tu. Th. S., 11.

Omitted in 1930-31.

MR. BRACKETT

## DEPARTMENT OF BIOLOGY\*

ASSISTANT PROFESSOR POTTER, MR. POMERAT AND  
SPECIAL LECTURER MILLER

NOTE: *The following announcement applies to the department as organized to the end of the academic year 1930-31. It is followed, beginning on page 106, by an advance announcement for the department as it is to be reorganized beginning September, 1931.*

The courses in Biology are intended to give a knowledge of living organisms, including man, and their environment. Biology 11 presents a comprehensive view of Biology that is prerequisite to all other courses in the department. This course is planned for students seeking a cultural education as well as for those who intend to enter professional Biology or related fields.

An undergraduate major in Biology will require:

1. Biology 11 and eighteen semester hours in advanced courses which should be chosen with the approval of the staff and should include at least one year of Biology 28 and 29.

2. Chemistry 11 or 12, Physics 11, and Mathematics 10 or 11 (required of all students majoring in science). (Other recommended courses are: Chemistry 16, 115 and 18; Mathematics 113; Physics 28; and Psychology 11 and 12.)

3. A reading knowledge of French or German—both languages if possible.

4. Fulfillment of other requirements of the University for the bachelor's degree.

Students planning to enter dentistry or medicine are advised to obtain the A.B. degree, majoring in Biology or Chemistry. When this is impossible the following course is suggested:

**Freshman year;** English 11, a foreign language (preferably German) Chemistry 11 or 12, Mathematics 10 or 11, an elective from division B.

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\*Beginning September 1931, the Department of Biology will be reorganized with Professor Hudson Hoagland, Ph.D., as head of the department and in close co-operation with the Department of Psychology. In addition to undergraduate courses, a program of graduate study leading to the degrees of Master of Arts and Doctor of Philosophy will be offered in the field of Physiology.

**Sophomore year;** a foreign language (continued), Chemistry 16, Biology 11, an elective from division B.

**Junior year;** Chemistry 115, Biology (one course), Physics 11, two electives.

The following elective subjects are suggested by the American Medical Association; Drawing, Economics, English, Greek, Latin, Mathematics, Political Science, Sociology.

Graduate students who desire to study for the master's degree in Biology should present an undergraduate major in Biology and a broad training in the related branches of science. Programs of study for graduate students will be arranged upon consultation with the chairman of the Department. Opportunity is offered for instruction, supervised experimental work and independent investigation.

The laboratories are well equipped for the courses offered and contain in addition some special equipment for advanced investigation in physiology. A small herbarium and a synoptic collection of animals are available for study. The University Library contains complete files of the more important periodicals for biological science and a representative collection of reference works.

Graduate scholarships are available for study in this department.

## COURSES IN BIOLOGY

### 1. PRIMARILY FOR UNDERGRADUATES

**11. General Biology.** A general introduction to the fundamental principles and problems of Biology. The first semester is devoted to plant biology and the second to animal biology. Prerequisite to all other courses in the department. Three lectures and one laboratory period per week. Due to limited laboratory accommodations the number of students accepted for this course is limited.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10; W., 2.

MR. POTTER

**12. Vertebrate Zoology.** The elements of vertebrate anatomy, embryology and the development of the germ cells and their



relation to genetics. Two lectures and two laboratory periods per week. Prerequisite Biology 11.

Indivisible course.

*Three hours*, through the year. W. F., 9.

MR. POTTER

**14. Botany.** This course deals with a more detailed study of plant life and serves as a continuation course after Biology 11. Emphasis is placed upon those groups of plants which are of evolutionary significance. In addition this study will be augmented in the spring by field work to acquaint the student with the local flora. Prerequisite Biology 11. Three lectures and one laboratory period per week.

MR. POTTER

*Three hours*, through the year. Tu. Th. S., 11; Th., 2.

**160. Microscopical Technique.** A course dealing with the preparation of tissues for study with the microscope. The principles of fixing, sectioning and staining will be worked out in the laboratory. Hours and credit to be arranged.

MR. POTTER

**170. General Histology.** A comprehensive course dealing with the cytology, tissue structure, and organology of vertebrate animals. Practical application of this subject especially in the fields of general biology and medicine will be taken up from time to time. Indivisible year course.

*Credit* to be arranged. S., 8-10, and an additional laboratory period.

MR. MILLER

Omitted in 1930-31.

**18b. Bacteriology.** An introduction to the principles of bacterial physiology, and to general bacteriological technique. Prerequisite is Biology 11. Two lectures and two laboratory periods per week.

*Three hours*, second semester.

MR. POTTER

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**21a. Invertebrate Zoology.** A detailed study of the structure, life-histories and behavior of representative invertebrate animals. Emphasis is placed upon the laboratory work. Two lectures and two laboratory periods per week. Prerequisite Biology 11. Offered in alternate years.

*Three hours*, first semester. M., 2-5.

Omitted in 1930-31.

**22. Human Physiology.** \*A course primarily for students in Psychology. The topics to be studied include muscular action, the nervous system, nervous coördination, chemical coördination by internal secretion, the digestion, absorption, and utilization of foods in the body, the excretion of wastes and the maintenance of the body. Application of the information will be made to the analysis of conduct and the efficient use of the body. The detail of the course will be adjusted to the needs and training of the class. Prerequisite, Biology 11, or its equivalent, and consent of the instructor. A year course (not divisible). Lectures, demonstrations and laboratory.

*Three hours*, through the year. Hours to be arranged.

Omitted in 1930-31.

**24a. Taxonomy and Ecology of Plants.** A course primarily for students majoring in geography. A study of the main types of vegetation and the use of keys for the identification of plants. Three lectures per week.

*Three weeks*, first semester. M. W. F., 11. MR. POTTER

Omitted in 1930-31.

**26. General Physiology.** An introduction to the fundamental structure and behavior of living organisms, the analysis of their vital activities and of the physical-chemical nature of the functions underlying them. Open to students who have had Biology 11 and who satisfy the instructor as to their preparation in Chemistry and Physics. Two lectures and two laboratory periods per week.

*Three hours*, during the year. Tu. Th., 10; Tu. W., 2.

Omitted in 1930-31.

**28. Special Problems.** Advanced, semi-independent study of an approved biological topic under the direction of a member of the staff. Hours and credit to be arranged.

STAFF OF THE DEPARTMENT

**29. Seminar.** One hour, during the year.

Omitted in 1930-31.

## 3. PRIMARILY FOR GRADUATE STUDENTS

30. **Research.** Topics to be arranged upon consultation with the professor in charge of the student's work. Hours and credit to be arranged. MR. POTTER

31. **Problems in Morphology or Plant Biology.**

MR. POTTER

## DEPARTMENT OF BIOLOGY\*

PROFESSOR HOAGLAND, ASSISTANT PROFESSOR POTTER, MR. POMERAT, SPECIAL LECTURER MILLER (PROFESSOR HUNTER, PROFESSOR NAFE)\*\*

## GENERAL STATEMENT

The Department of Biology is located on the second floor of the Main Building of the University. The laboratories are well equipped for the courses offered and contain certain special equipment for advanced investigations in physiology. In addition, annual funds are available for the purchasing and building of special apparatus as it may be required. A small herbarium and a synoptic collection of animals are available for study. The University Library contains complete files of the more important periodicals and reference works. Certain assistantships, fellowships and scholarships are available from time to time.

## UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the Department. This course is planned for students seeking a cultural education as well as for those who intend to enter professional biology, dentistry, or medicine. Courses 12, 14 and 16 are planned to give the undergraduate a working acquaintance with the fundamental aspects of zoölogy and botany and to serve as a biological background for premedical students or for those planning to do graduate work in Biology.

An undergraduate major in Biology will require:

(1) Biology 11, and 18 semester hours in advanced courses which should be chosen with the approval of the staff and should include Biology 205a and 205b, 208 and 209.

(2) Chemistry 11 or 12, Physics 11 and Mathematics 10 or 11 (required of all students majoring in Science). (Other recommended courses are: Chemistry 16, 115 and 18; Mathematics 12 and 113; Physics 28; and Psychology 11 and 12.)

(3) A reading knowledge of either French or German.

(4) Fulfillment of other requirements of the University for the Bachelor's degree.

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\*Advance announcement for 1931-32.

\*\*Research 305 by Professor Hunter and Professor Nafe, Psychology 206a and 207b given by Professor Hunter and Psychology 202a and 201b given by Professor Nafe may be credited as courses in Biology.

Students planning to enter dentistry or medicine are advised to obtain the A.B. degree majoring in Biology or in Chemistry. When this is impossible the following course is suggested:

Freshman year: English 11, a foreign language (preferably German) Chemistry 11 or 12, Mathematics 10 or 11, an elective from Division B.

Sophomore year: a foreign language (continued), Chemistry 16, Biology 11, an elective from Division B.

Junior year: Chemistry 115, Biology (one course), Physics 11, two electives.

The following elective subjects are suggested by the American Medical Association: Drawing, Economics, English, Greek, Latin, Mathematics, Political Science, Sociology.

## GRADUATE WORK

In accordance with special action of the Board of Trustees, the Department of Biology is reorganized on a full graduate basis beginning in September 1931. Students whose records are approved by the Graduate Board and by the Chairman of the Department may be admitted for work leading to the degree of Master of Arts in Biology or to the degree of Doctor of Philosophy in Physiology. The general plan of organization involves a relationship between the Department of Psychology and the Department of Biology whereby students in either Department may be credited with certain advanced courses and research in the other.

The general requirements for the Master's degree and for the Doctorate are stated elsewhere in this catalog. In addition to the general requirements, the Department has a supplementary requirement that copies of Doctors' dissertations be deposited with the Department.

The analysis of fundamental activities of living organisms which is required for an understanding of them is necessarily undertaken upon the basis of physico-chemical principles. For this reason a foundation in physics, chemistry and mathematics as well as in biology is essential for advanced work in physiology. General physiology bears a relation to medicine similar to that of physics to engineering and in recent years it has developed rapidly as a fruitful field of investigation.

## COURSES IN BIOLOGY

### 1. Primarily for Undergraduates

#### 11. General Biology.

MR. POTTER AND MR. POMERAT

#### 12. Vertebrate Zoölogy.

MR. POTTER

**14a. Botany.** This course deals with a more detailed study of plant life and serves as a continuation course after Biology 11. Three lectures and one laboratory period per week.

Three hours, first semester.

#### 16. General Histology. (Biology 170, in 1930-31).

MR. MILLER AND MR. POMERAT

### 2. For Graduate Students and Advanced Undergraduates

**205a. General Physiology.** Open to students who have passed Biology 11 or its equivalent and who satisfy the instructor as to their preparation in Physics, Chemistry, and Mathematics. Chemistry 11, Physics 11, and Mathematics 11, or their equivalent, are prerequisite except in special cases. Chemistry 15 and 18 and Mathematics 12 are advised.



This course along with 205b is designed to give the student an acquaintance with certain major problems of physiology. The nature of living substance is considered in terms of its component materials and their physical-chemical properties; cellular organization; catalysis and enzyme action; permeability; irritability and transmission; tropisms; respiration; photosynthesis; nutrition and growth.

Three hours, first semester. Tu, Th., and (at the pleasure of the instructor), Saturday at 10 and six hours of laboratory per week.

MR. HOAGLAND

**205b. General Physiology.** Prerequisites the same as for 205a. This course may be taken separately, but preferably should come after 205a. It is concerned primarily with integrated processes involved in animal conduct, central nervous coordination, muscular contraction, blood, homeostatics and general organology are considered.

Three hours, second semester. Tu, Thu., and (at the pleasure of the instructor), Saturday at 10 and six hours of laboratory per week

MR. HOAGLAND

**Psychology 200a. Physiological Psychology.** Vision.

(For description see announcement of Psychology Department).

**Psychology 201b. Physiological Psychology.** Audition, smell and taste.

(For description see announcement of Psychology Department).

**202b. Invertebrate Zoölogy.** A detailed study of the structure, life histories and behavior of representative invertebrate animals. Two lectures and two laboratory periods per week. Prerequisite Biology 11.

Three hours, second semester.

MR. POMERAT

Alternate years.

**Psychology 206a. Animal behavior.** (For description see announcement of Psychology Department).

**Psychology 207a. The Learning Process.** (For description see announcement of Psychology Department).

**208. Special Problems.** Advanced, semi-independent study of an approved biological topic under the direction of a member of the staff. Hours and credit to be arranged.

STAFF OF THE DEPARTMENT

**209. Seminar in Physiology.** Weekly meetings are held by instructors and advanced students for critical discussions of investigations in progress and of the current literature.

Hours and credit to be arranged.

STAFF OF THE DEPARTMENT

### 3. Primarily for Graduate Students

**306. Analysis of Conduct.** This course deals in a quantitative way with the effect of temperature on vital processes, with photokinetic excitation, and with tropisms. Attempts are made to derive theoretically meaningful, mathematical formulations of behavior. Open to students satisfying the instructor of the adequacy of their preparation.

MR. HOAGLAND

Two hours, Friday at 4.

Alternate years

STAFF OF THE DEPARTMENT

**307. Nervous system dynamics.** A treatment of the nature of the nerve impulse and of the correlation of central nervous activities; excitation, inhibition, the reflex control of movement and the nature of central nervous control. MR. HOAGLAND

Two hours. Friday at 4.

Alternate years.

**308. Research: Dynamics of Vital Phenomena.**

Credit to be arranged.

MR. HOAGLAND

**305. Research in animal behavior and sensory physiology.**

Credit to be arranged.

MESSRS. HUNTER AND NAFE

## DEPARTMENT OF CHEMISTRY\*

PROFESSOR MERIGOLD, PROFESSOR WARREN, ASSISTANT  
PROFESSOR BULLOCK

The instruction offered in Chemistry falls into two main groups:

First, courses intended primarily for undergraduates. These are designed for those students who wish to acquire the necessary foundation for professional work in Chemistry, for pre-medical students, and for those desiring some knowledge of the subject as part of their general education.

Second, courses intended primarily for graduates. These courses offer advanced instruction to students possessing the requisite foundation in Chemistry, Physics, and Mathematics, and afford training in the methods of chemical research.

### UNDERGRADUATE WORK

Students who expect to make Chemistry a profession should *major* in Chemistry and should either take a *minor* in Physics or at least two years' work in that subject.

Students intending to study Medicine should take as much work in Chemistry as possible. As minimum requirements for medical work, the following courses are essential: 11 or 12, 16 and 115. Pre-medical students wishing a more comprehensive course are advised to take 11 or 12, 13, 14, 15, 110, 18 and 216. Attention is called to the statement regarding pre-medical courses under the announcement of the Department of Biology.

The attention of all students intending to enter undergraduate courses in Chemistry is called to the matter of the laboratory fees and breakage deposits on page 30.

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\*The degree of Doctor of Philosophy will be offered in the Department of Chemistry, beginning with the academic year 1931-32.

## GRADUATE WORK

It is the purpose of the Department of Chemistry to provide the graduate student with that broad training in the fundamental principles of Chemistry which shall adequately equip him for a subsequent scientific career. A considerable number of the students entering this department for graduate work will naturally look forward to an academic career. It is not intended, however, to provide training for such men alone, for the equipment for technical research, whether for public or private interests, requires equally a thorough familiarity with the underlying principles of science and with the methods of experimental investigation. Whether a student shall devote himself to pure or to technical research is a matter of individual interest and inclination rather than of training. The purpose of the department is to provide the training on lines sufficiently broad to enable the student to exercise a choice between technical and purely scientific work.

## ADVANCED DEGREES AND RESEARCH

The requirements for advanced degrees cannot be met by the mere pursuit of a course of studies nor by the mere execution of a research. For this reason no definite course of graduate studies is outlined, but the student is expected to carry such courses as will enable him to acquire a comprehensive knowledge of the subject of Chemistry during the course of his residence at the University. Students who are not fully prepared for graduate work will be required to make up any deficiencies either before undertaking graduate work or while at the same time taking a limited amount of graduate work. In such cases it is to be expected that the time necessary to obtain an advanced degree will be correspondingly extended.

Since 1924-25 the degree of Master of Arts has been the only advanced degree granted. Candidates for the degree of Doctor of Philosophy will be accepted for the year beginning September, 1931, and thereafter.

All students registered for the advanced degree are expected to devote not less than eighteen hours per week to laboratory work. A portion of the time may be devoted to special laboratory work in organic, inorganic and physical Chemistry.

Graduate scholarships are available for students in this department.

## COURSES IN CHEMISTRY

### 1. PRIMARILY FOR UNDERGRADUATES

**11. General Chemistry.** Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of Chemistry. Three lectures, and three hours of laboratory work per week.

Open to Freshmen who have studied Chemistry in High School. *Three hours*, through the year. M. W. F., 11; M., 2.

MR. MERIGOLD

**12. Elementary Chemistry.** Similar to course 11 in general nature and ground covered, but intended primarily for students having no knowledge of Chemistry on entering. Chemistry 12 is considered equivalent to course 11 as preparation for advanced courses.

Divisible only by consent of the instructor.

Open to Freshmen who have not studied Chemistry in High School.

*Three hours*, through the year. Tu. Th. S., 9; W., 2.

MR. BULLOCK

**13. Qualitative Analysis.** Basic and acid. Chiefly laboratory work, nine hours per week. Occasional lectures, and recitations upon the theories involved. Open only to students who have taken course 11 or its equivalent.

*Three hours*, through the year. Tu. F., 2. MR. WARREN

**14. Quantitative Analysis.** Chiefly laboratory work, with occasional lectures, recitations, and problems. A carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative manipulation, both gravimetric and volumetric. Six hours of laboratory work, and one lecture per week. Open only to those who take or have taken course 13.

*Three hours*, through the year. Tu., 3:30; Th., 2.

MR. MERIGOLD



**15. Elementary Organic Chemistry.** Lectures and recitations on the fundamental principles of organic chemistry. This course is designed for beginners and for those who intend to study medicine. Open to all who have taken course 11 or its equivalent.

*Three hours, through the year.* M. W. F., 8. MR. WARREN

**16. Qualitative and Quantitative Analysis.** Combined course designed for pre-medical students. Principles of *qualitative analysis* (basic and acid) and *quantitative analysis* (gravimetric and volumetric), as exemplified by the analysis of typical unknown substances. Chiefly laboratory work, nine hours per week. Occasional lectures, recitations and problems upon the theories involved. Open only to students who have taken course 11, or its equivalent.

This course is not accepted as preparation for Chemistry 214.

*Three hours, through the year.* Tu. Th. F., 2.

MESSRS. MERIGOLD AND WARREN

**18. Physical Chemistry.** Two lectures and three hours of laboratory a week, introducing the student to the principal chapters of modern chemical theory. To be admitted to this course, students must have passed Chemistry 11 and 14 and Physics 11. A knowledge of organic chemistry and calculus is desirable. Divisible only by consent of the instructor.

*Three hours, through the year.* W. F., 9; F., 2.

MR. BULLOCK

**110. Organic Synthesis and Analysis.** Laboratory work, consisting of the preparation of typical organic compounds, qualitative testing for the ordinary elements and organic groups, the quantitative determination of carbon, hydrogen, nitrogen, and the halogens. Course 110 should be taken, if possible, in connection with course 15. The work of this course requires nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

*Three hours, through the year.* M. Th., 2. MR. WARREN

**115. Pre-Medical Organic Chemistry.** Lectures on the fundamental principles of organic chemistry and laboratory work. This course is designed to meet minimum requirements for ad-

mission to medical schools. Open to all who have taken course 11 or its equivalent.

*Three hours*, through the year. M. W., 8 and M., 2.

MR. WARREN

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**212b. History of Chemistry.** This course is intended to cover the historical development of the science. An attempt is made to give the student some knowledge of the individuality of the men whose work has resulted in the growth and development of modern Chemistry. Attention will be given also to the relation of Chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 18 and 15 or equivalent courses.

*Three hours*, second semester. Tu. Th., 11. MR. MERIGOLD

**214. Advanced Quantitative Analysis** (including Gas Analysis). Open only to students who have taken course 14. This course is primarily intended for those who expect to specialize in Chemistry, and may also be taken with advantage by those who intend to study Medicine, and who have taken Chemistry 14. The laboratory work will be varied, if desired, to meet the needs of individual students. Occasional lectures treat the subject systematically from both practical and theoretical standpoints. Laboratory work, nine hours per week.

*Three hours*, through the year. Tu. Th., 2. MR. MERIGOLD

**215. Advanced Organic Synthesis.** The preparation of more difficult organic compounds, including the investigation of an original subject. Open to all who have taken course 110.

*Three hours*, through the year. M. Th., 2. MR. WARREN

**216. Journal Reading.** Practice in the use of current chemical literature. Assignment of journals for report and discussion.

*Two hours*, through the year. Tu. F., 4. MR. WARREN

**217. Intermediates and Dyestuffs.** This course covers methods of preparation, properties and uses of the commoner intermediates employed in dyestuff manufacture followed by a study

of typical representatives of the more important classes of dye-stuffs. Lectures, collateral reading, reports and thesis.

Open to graduate students and undergraduates who take or have taken course 15.

*Three hours*, through the year. Tu. Th., 10. MR. BULLOCK  
Omitted in 1930-31.

**218. Advanced Organic Chemistry.** Lectures on selected subjects in organic chemistry and recitations. Open to all who have taken courses 15 and 115.

*Three hours*, through the year. M. W. F., 11. MR. WARREN

### 3. PRIMARILY FOR GRADUATE STUDENTS

**31. Advanced Inorganic Chemistry.** Discussion of special features of inorganic and analytical chemistry, theoretical and practical. Sources of error, limits of accuracy, preparation of pure inorganic materials and exact methods of analysis required in fields of research necessitating precise analysis. Principles of electro chemistry.

*Twice a week*, through the year, with laboratory work.

Omitted in 1930-31.

MR. MERIGOLD

**32. Advanced Theoretical Chemistry.** Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems. Applications of the Phase Rule and the determination of the free energy of chemical reactions.

*Three hours*, through the year. Tu. Th. F., 9. MR. MERRIGOLD

**35b. Seminar.** Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

*Once a week*, second semester. W., 5.

STAFF OF THE DEPARTMENT

## DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSOCIATE PROFESSORS \*MAXWELL,  
LUCAS, AND HIMES, ASSISTANT PROFESSOR SHANKWEILER

A liberal education implies some systematic knowledge of the

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\*Absent on leave, 1930-31.

organization and functions of our economic and social order; to meet this need is the first aim of the department as at present constituted. This cultural objective, however, is not exclusive; that much of the work of the department may have a definite vocational bearing is quite obvious.

The courses in Economics are especially worthy of the attention of students looking forward to a business or professional career. These courses are intended to give the student an understanding of the economic structure of society and of its functioning, and also to train him in the critical analysis of economic problems. They aim primarily to prepare the student for the place of enlightened leadership which the community rightfully expects the college-bred man to assume, and to fit him for grappling with the broader problems that confront the business man. The department recognizes, too, the demand for the development of courses stressing the application of economic principles to business technique with the objective of fitting liberally trained men for capable functioning in the business world; expansion in this direction will continue as rapidly as facilities permit.

Courses numbered 117, 18a, 18b, 19b, 24a and 27b are designed to give the student an introduction to some of the more important business aspects of economics. They should be of particular value to the student planning to attend a graduate school of business administration as well as to the student who will enter business directly upon leaving college. These courses are given in rotation enabling a student to elect all in his last two years. Attention is also called to Economics 13, 16, and 22 as training for a business career.

The courses in Sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his economic and social relationships. These courses attempt not only to give a knowledge of the science, but aim to be broadly cultural in content. Incidentally, they aim to stimulate appreciation by the student of the work of scientists and specialists in many fields, and of their contributions to problems of human welfare. Moreover, the courses are being developed and extended to meet the needs of students in applied fields. Particularly, students of education and social work will find offerings adapted to their interests.



Economics and Sociology are most happily associated, whether as *major* or *minor* subjects, with work in the departments of History and International Relations, Geography and Geology in their more economic aspects, Psychology, and English. Other combinations are not undesirable. For example, one equipping himself for industrial Chemistry might well choose Economics for his *minor* subject; or, one whose *major* interest lies in the social sciences, particularly in the fields of research into statistical and business problems, will find courses in Mathematics highly desirable.

Economics 11 is a prerequisite to all other courses in Economics, with the possible exception of Economics 14a and 14b. Sociology 11 is a prerequisite to further work in Sociology. Undergraduates majoring or minoring in either branch of the department are urged to take the introductory courses in their sophomore year; only under unusual conditions should they postpone these introductory courses. Students who believe that they will major in the department are urged to take Economics 10 in their Freshman year.

#### GRADUATE WORK

The department regularly offers courses leading to the Master's and Doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate major, i.e., twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other minor aids are available to students in the department; also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students.

*The attention of students in Economics and Sociology is directed also to closely allied courses offered in the Departments of Geography, Geology, History and International Relations, Mathematics and Psychology.*

## COURSES IN ECONOMICS

### 1. PRIMARILY FOR UNDERGRADUATES

**10. Social Science Survey.** A survey course, designed to introduce the student to the methods and materials of the social sciences, and to build up a background of understanding for later work in Economics, Sociology, or other social sciences. The course will treat briefly the outstanding features of the earlier stages of economic and social life, the evolution of modern capitalism, and more fully the conspicuous aspects of the present day industrial world, such as: mechanization of industry; specialization in production; division of labor; reliance on power; natural resources and raw materials; markets; population; migration of peoples; regional, national and international interdependence, rivalries, and conflicts; the place of the United States in the world economy; problems of national concern, such as group and "bloc" interests, immigration, racial issues, big business, the tariff; monopoly, competition, private property, inheritance; diffusion and concentration of wealth. This course may not be counted as a part of the major or minor requirement.

Indivisible course, designed especially for Freshmen; *Sophomores may take the course with reduced credit.*

*Three hours, through the year. M. W. F., 9.*

MR. BRANDENBURG

**11. Principles of Economics.** An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Prerequisite, Sophomore standing; Economics 10 desirable. Indivisible course.

*Three hours, through the year. M. W. F., 10. MR. LUCAS*

**13. Money, Banking, and the Business Cycle.** The principles of money and banking, with special reference to their functions in the present economic organization of society. History

of money and banking in the United States and Western Europe. The Federal Reserve System will be considered in some detail. Foreign exchange, organized speculation in its relation to the money market, and the business cycle are included in the subject matter of the course. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work. Indivisible course.

*Three hours*, through the year.

MR. MAXWELL

Omitted in 1930-31.

**14a. Economic History of Western Europe.** The development of European industry and commerce since the Industrial Revolution. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

*Three hours*, first semester. M. W. F., 9.

MR. HIMES

To be omitted in 1931-32.

**14b. Economic History of the United States.** The economic progress of the United States from the Colonial period to the present. Such topics as the following will be discussed: economic life in the colonies; the development of agriculture and manufactures; changes in the forms of transportation; domestic and foreign commerce; tariff policy; banking, currency, and public finance; problems of industrial combination. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

*Three hours*, second semester. M. W. F., 9.

MR. HIMES

To be omitted in 1931-32.

**15a. Public Finance.** A study of the principles of public expenditures, revenues, and debts, with particular reference to American conditions. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work.

*Three hours*, first semester.

MR. MAXWELL

Omitted in 1930-31.

**16b. Statistics.** Methods of collecting, analyzing, and presenting statistical data with special reference to economic statistics. Text-books, lectures, and problem work. Prerequisite, Economics 11. A laboratory period will be required.

*Three hours*, second semester.

MR. MAXWELL

Omitted in 1930-31.

**117. Principles of Accounting.** The organization and use of financial records, theory of debits and credits, construction and interpretation of the main financial statements, proper treatment of reserves and surplus, accounting for depreciation, handling intangibles, and other special problems. Emphasis is on the use of accounting records as an aid to business management, rather than on the technique of procedure. A two-hour laboratory period is required. Prerequisite, Economics 11. Indivisible course.

*Three hours*, through the year. T. Th., 10; Th., 2-4.

To be omitted in 1931-32.

MR. LUCAS

**18a. Business Organization.** This course discusses the evolution and forms of business and industrial organization; the proper organization from the standpoint of management as well as from the standpoint of the public at large; the integration and combination of business units. It serves as an introduction to the problems relating to the financial policies of corporations. Prerequisite, Economics 11.

*Three hours*, first semester. Tu. Th. S., 9.

MR. LUCAS

**18b. Business Finance.** This course is virtually a continuation of Economics 18a. It discusses in detail the problem of the formation and capitalization of corporations, promotion, underwriting, receivership, failure and reorganization, and the proper administration of income. The relation of government to business is also considered. Prerequisites, Economics 11 and 18a.

*Three hours*, second semester. Tu. Th. S., 9.

MR. LUCAS

**19b. Economics of Transportation.** History and present status of rail, water, and highway transport; theories of rate-making; problems of intercorporate relationship, public regulation, government operation, and chief problems of the present. Prerequisite, Economics 11.

*Three hours*, second semester.

MR. LUCAS

Omitted in 1930-31.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**22. Labor Problems.** A study of labor organizations; the aspects of labor questions as reflected in labor legislation; the



labor of women and children or other special classes; minimum wage; social insurance; employers' associations; the selection and training of workers; labor turn-over; welfare work; shop committees; profit-sharing; and similar questions. Prerequisites Economics 11 and 14b.

*Three hours*, through the year  
Omitted in 1930-31.

MR. BRANDENBURG

**210b. Economic and Social Reform.** The historical and economic background of reform movements; socialism as a criticism of the system of the classical economists and of existing institutions, as a theory of social progress, and as a program of social reform. Prerequisites, Economics 11 and 14a or 14b.

*Three hours*, second semester. M. W. F., 11.

To be omitted in 1931-32.

MR. BRANDENBURG

**23b. Recent Monetary and Financial Problems.** This course will deal with important developments occasioned by the War in the monetary, banking and fiscal systems of the principal European countries and the United States. The relationship between these changes and government finance will receive attention, together with recent proposals for monetary reform. Reports and a thesis will be required. Prerequisites, Economics 11 and other courses prescribed by instructor.

*Three hours*, second semester.

MR. MAXWELL

Omitted in 1930-31.

**24a. Marketing Methods and Policies.** This course acquaints the student with our general system of commodity distribution. It discusses the distributive mechanism, the competitive aspects of marketing such as price policies, brand policies, and unfair competition; market analysis, and demand creation. Recent developments are analyzed. The social point of view is stressed throughout. Each student is required to do a certain amount of individual research work. Prerequisite, Economics 11.

*Three hours*, first semester.

MR. LUCAS

Omitted in 1930-31.

**25b. Problems in Public Finance.** Certain important financial questions, relating particularly to the United States, will be examined in more detail than is possible in Economics 15a. An

historical survey of federal finance will be made with stress put upon recent developments. State and municipal finance will receive some attention. Reports and a thesis will be required. Prerequisites, Economics 11 and 15a.

*Three hours*, second semester.

MR. MAXWELL

Omitted in 1930-31.

**27b. International Trade and International Finance.** This course acquaints the student with the nature and theoretical basis of foreign trade. A thorough analysis is made of the principles underlying the international movement of goods. The foreign trade of the United States, its effects on our economic and social life, the channels of trade, methods of ocean transportation, the financing of foreign trade with emphasis on foreign exchange, government promotion and interference with trade with especial attention to protective tariffs, are some of the more important problems discussed.

Prerequisites Economics 11, and Economics 13.

*Three hours*, second semester.

MR. LUCAS

Omitted in 1930-31.

**28. Research in Selected Economic Problems.** The work in this course consists of the first hand analysis of important problems connected with the production and marketing of goods. Sufficient text-book work and formal classroom discussion is given to furnish the student with the proper background. Most of the work, however, consists of independent research under the direction of the instructor in charge. The problems to be analyzed are chosen on the basis of the qualifications and interests of the student. Limited enrollment; consent of the instructor required.

*Three hours*, through the year. Hours to be arranged.

MR. LUCAS

### 3. PRIMARILY FOR GRADUATE STUDENTS

**31. International Economic Policies.** National tariff policies or other commercial restrictions with the international problems arising therefrom; national, private, or public establishments for the promotion of foreign trade; banking and credit facilities as

factors in foreign trade; commercial treaties; navigation laws and general maritime policies of important commercial nations.

*Two hours*, throughout the year. M., 7-9. MR. BRANDENBURG

**32a. Land Economics.** Land Economics is a study of those social and economic relationships arising out of man's dependence on land as a factor in the production of economic goods. The course studies the economic concept of land in contrast with the geographical and legal concepts; property in land and forms of land tenure; the economic characteristics of land as contrasted with the other factors of production; costs involved in adapting land to the needs of men; rent and income from land together with an intensive study of the theory of rent as applied to various types of land; rural and urban tenancy and ownership; land taxation, land credit, land values, etc.

*Three hours*, first semester. M. W. F., 11.

To be omitted in 1931-32.

MR. BRANDENBURG

**38a. History of Economic Thought to the End of the 18th Century.** Study will be made of those periods important in the history of economic thought, starting with Greek antiquity. Somewhat less attention will be given to Roman antiquity and to the Middle Ages. In the modern period, the contributions of the Mercantilists, the Physiocrats and Adam Smith will be estimated.

*Three hours*, first semester. M. F., 3:30-5.

MR. HIMES

To be omitted in 1931-32.

**38b. Modern Economic Thought.** The rise and development of modern schools of economic thought will be traced, starting with the English classical school and proceeding to examine the German historical school, the Austrian school, and the mathematical school. Some attempt will be made to treat recent developments. Attention will be given rather to the history of thought than to analytic criticism of specific doctrines.

*Three hours*, second semester. M. F., 3:30-5.

MR. HIMES

To be omitted in 1931-32.

**39. Value and Distribution.** An advanced course in economic theory, involving a critical reading of Smith, Ricardo, J. S. Mill, and representative modern economists. Intended to trace the progress of economic thought since the early part of the nine-

teenth century and to train the student in critical consideration of economic principles. The course is conducted mainly by discussion in which the students are expected to take an active part. Indivisible course.

*Three hours*, through the year.  
Omitted in 1930-31.

MR. MAXWELL

**311. Seminar in Economics and Sociology.** Round-table meetings are held fortnightly in the evening for presentation of the results of investigation by members of the Seminar. As occasion offers, other persons are invited to address the Seminar on matters of general interest. All graduate students in the Department are expected to attend. Seniors *majoring* in Economics and Sociology are urged to do so.

*Second and fourth Thursdays* of each month at 7:30.

THE STAFF OF THE DEPARTMENT

## COURSES IN SOCIOLOGY

### 1. PRIMARILY FOR UNDERGRADUATES

(See also Economics 10)

**11. Introduction to Sociology.** This course will afford familiarity with the materials of Sociology, knowledge of the scope of Social Science, and an insight into methods of studying society. It will review the chief concepts of the science, with illustrations from the literature of the subject and the phenomena of contemporary social life. It will offer a brief introduction to social problems, with assigned topics for investigation. Prerequisite, Sophomore standing. Sociology 11, or its equivalent, is a prerequisite to all other courses in Sociology.

Indivisible course.

*Three hours*, through the year. Tu. Th. S., 11.

MR. SHANKWEILER

### 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

(See also Economics 210b and Economics 22)

**21a. The Family.** Origin and development of the family as a social institution; its relation to other institutions; changing functions of the family; causative factors underlying the modern disorganization of the home, with proposed measures for its conservation. Special consideration given to statistical studies and



case analyses of contemporary marriage relationships. Prerequisite Sociology 11.

*Three hours*, first semester. Tu. Th. S., 10.

MR. SHANKWEILER

**22b. Urban Sociology.** A study from the social standpoint of the growth, structure, function, and control of modern cities, including a comparison of the physical and social characteristics of urban and rural communities. Individual and group study of the local community will provide laboratory exercises for sociological research. Open to advanced students. Prerequisite, Sociology 11.

*Three hours*, second semester. T. Th., 4-5:30.

Omitted in 1930-31.

MR. SHANKWEILER

**23a. Survey Course in Social Work.** A study of the history and expansion of social work activities in relation to social and economic changes in society, with particular reference to local practices and conditions. Among the problems analyzed are: Changing emphasis in the philosophy and technique of social work, increasing professionalization, the trend toward cooperation and democracy in organization, the contribution of the social sciences to social work, the re-discovery of the social implications of social work, etc. Primarily for those interested in the practical applications of social science. Prerequisite, Sociology 11.

*Three hours*, first semester. T. Th., 4-5:30.

MR. SHANKWEILER

**23b. Community Organization.** A study of the structure, functions, and interrelationships of organized groups and institutions; of dynamic social changes in modern community life and resultant conflict of interests; of experiments in community organization aiming at the closer coordination of neighborhood and community activities, for example, the school community center movement, the playground and recreation movement, the public health movement, etc. Evaluation of sociological implications of various programs for securing community solidarity. For advanced students interested in social research.

*Three hours*, second semester. Th., 3:30-6.

MR. SHANKWEILER

**24b. Social Pathology.** A study of the abnormal and sub-normal classes in modern society, the poor, the unemployed, the disabled, the diseased, the degenerate, and others in need of help or supervision, with primary emphasis on causative factors. Analysis of remedial measures employed by local agencies in the treatment of social maladjustment. For students of social problems, particular for those interested in social work. Prerequisite, Sociology 11.

*Three hours*, second semester. T. Th. S., 10.

MR. SHANKWEILER

**25b. Educational Sociology.** The major content of this course will be: Social principles of education; movements for the reconstruction of the curriculum; socialization of administration and pedagogy; evaluation of education through surveys; social factors in the composition of the teaching force and the pupil population; the place of the school in larger communal relations. Prerequisite, Sociology 11.

*Three hours*, second semester. Hours to be arranged.

Omitted in 1930-31.

MR. SHANKWEILER

**26b. Criminology.** A study of criminal behavior: its extent, nature, causation, treatment. Special attention will be given to an analysis of contemporary penological problems with a view to formulating a policy consistent with the findings of current sociological, psychological, and psychiatric research. Field trips and individual investigations.

Prerequisite: Sociology 11.

*Three hours*, second semester. T. Th. S., 10.

MR. SHANKWEILER

**28a. Population Problems.** A review of the biological theories of society; modes of limitation and selection of population; vital statistics and population trends; a survey of resources for the support of population; past and prospective modes of control; influence of selective factors on welfare; problems of race, family, and general progress associated with population changes. Prerequisite, Sociology 11.

*Three hours*, first semester. M. W. F., 2.

MR. HIMES

**28b. Research on Population Problems.**

*Three hours*, second semester. Hours to be arranged.

MR. HIMES

**3. PRIMARILY FOR GRADUATE STUDENTS**

(See also Economics 311)

**31b. History of Sociology in the United States.** Intended for graduate students of the social sciences, particularly for those majoring in Sociology. The major content of this course deals with the development of American social thought, prefaced by a brief resumé of European backgrounds, and concluding with modern trends in Sociological theory. Seminar method. Hours to be arranged.

*Three hours*, second semester.

MR. SHANKWEILER

Omitted in 1930-31.

**32. Sociology Seminar.** Intended for students of graduate standing working on research projects.

*Two hours*, through the year. Hours to be arranged.

MR. SHANKWEILER

**DEPARTMENT OF ENGLISH**

PROFESSOR AMES, PROFESSOR DODD, ASSISTANT PROFESSOR BAKER

Prescribed work in English consists of English 11, required of all Freshmen, and 6 additional semester hours of English literature or composition, to be completed by the end of the Junior year. A *major* in English consists of twenty-four semester hours, including English 11. A *minor*, of eighteen semester hours, including English 11.

Beginning with the year 1929-30, a course in the Appreciation of the Fine Arts, given by Professor Dodd, is a requirement for all students, to be completed either in the Freshman or the Sophomore year. This course is not counted in fulfillment of the requirement in *English*.

**THE PRENTISS CHENEY HOYT PRIZE IN POETRY**

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial

to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

## COURSES IN ENGLISH

### 1. PRIMARILY FOR UNDERGRADUATES

**11. English Composition.** Following a rapid review of rhetoric the work concentrates in writing original essays. The text is M. J. Curl's *Expository Writing*. Ernest Dimmet's *Art of Thinking* is read. In the second semester, the study of selected literature provides material for further theme writing.

Required of Freshmen.

*Three hours*, through the year. T. Th. S., 11; and T. Th. S., 12. MR. BAKER

**12b. Public Speaking.** Constant practice in the composition and delivery of extemporaneous address.

Open to Freshmen.

*Three hours*, second semester. W. F., 12, and afternoon hour to be arranged. MR. BAKER

**13. Shakespeare.** A general survey of Shakespeare's works, including the reading and class discussion of twenty plays. Prerequisite, English 11.

*Three hours*, second semester.

MR. AMES

Omitted in 1930-31.

**15a. A Survey of English Literature.** A course in English literature from its beginning to the end of the seventeenth century. Prerequisite: English 11.

*Three hours*, first semester. M. W. F., 10.

MR. AMES

**16b. English Composition.** Weekly themes in exposition, argumentation and narration. The student is allowed to specialize in one or more of these forms. Outside reading and class criticism. Open to students who have attained high standing in English 11.

*Three hours*, second semester.

MR. BAKER

Omitted in 1930-31.

**17a. The Romantic Movement in English Literature.** Prerequisite: English 11,



*Three hours*, first semester.  
Omitted in 1930-31.

MR. AMES

**18a. The Bible.** This course aims to stimulate an intelligent appreciation of the Bible as literature. Prerequisite: English 11.

*Three hours*, first semester.  
Omitted in 1930-31.

MR. AMES

**19b. English Literature of the Eighteenth Century.**

Prerequisite: English 11.

*Three hours*, second semester. M. W. F., 10.

MR. AMES

**110b. Nineteenth Century Poetry.** A study of English poetry from Tennyson to Kipling. Prerequisite: English 11.

*Three hours*, second semester.

MR. AMES

Omitted in 1930-31.

**111. American Literature.** Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only. Open to Freshmen with the approval of the instructor.

*Three hours*, through the year. Tu. Th. S., 12.

MR. AMES

**112. The Modern Essay.** A study of English and American essays from 1820 to the present day, with appropriate collateral reading in fiction. The course may be elected for the year or for the first semester only. Prerequisite: English 11.

*Three hours*, through the year. Tu. Th. S., 10.

MR. AMES

**113a. Modern English Drama.** A study of contemporary English dramatists.

Open to Freshmen.

*Three hours*, first semester.

MR. DODD

Omitted in 1930-31.

**114b. Elizabethan and Restoration Drama.** A study of the plays written by Shakespeare's distinguished contemporaries and his successors of the Restoration.

*Three hours*, second semester. M. W. F., 10.

MR. DODD

**121a. Biography and Letters.** A study of the biography, autobiography and correspondence of distinguished authors, together with painters and sculptors, from the eighteenth century

to the present day. This course is open only to upper classmen who are proficient in English.

*Three hours*, first semester. M. W. F., 9. MR. DODD

**122a. Modern Poetry.** A study, in representative contemporary poets, of the new tendencies in verse. For those wishing it opportunity is afforded for original verse composition.

Open only to upper classmen who are proficient in English.

*Three hours*, first semester. M. W. F., 9. MR. DODD

To be omitted in 1931-32.

**123a. The 19th Century Novel in England.** A study of the important novelists from Scott to Hardy. Open to Freshmen with the approval of the instructor.

*Three hours*, first semester. MR. BAKER

Omitted in 1930-31.

**124a. American Drama.** A study of the American drama from colonial times to the present day.

Open to Freshmen,

*Three hours*, first semester. MR. DODD

To be omitted in 1931-32.

**125a. The Short Story.** A study of representative short stories in English and American literature.

Open to Freshmen.

*Three hours*, first semester. MR. DODD

Omitted in 1930-31.

**126b. Modern Continental Drama.** Contemporary drama: Norway, Russia, Germany, Austria, France, Spain and Italy. A companion course to Modern English Drama.

*Three hours*, second semester. Tu. Th. S., 9. MR. DODD

**130a. The Modern Novel in England.** A successive course to the Nineteenth Century Novel. Ten representative novels, beginning with Samuel Butler, are read.

*Three hours*, first semester. M., 8; W. F., 12. MR. BAKER

## FINE ARTS

**1b. Fine Arts.** A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned read-

ings, field trips. This course is not counted in fulfillment of the requirement in *English*.

*Three hours*, second semester. M. W. F., 9.

MR. DODD

## DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in Geography and the related subjects, Physiography, Meteorology and Climatology, will be found in the announcement of the Graduate School of Geography.

## DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

### 1. PRIMARILY FOR UNDERGRADUATES

**12. General Geology.** First semester. A study of the rocks which compose the earth's surface, the physical processes which act upon them, the internal forces which deform them, and the land forms which result. Many of the practical applications are indicated. Except that the study of weather and climate is omitted, this course may be taken as an introductory course in Physiography.

Second semester. The geological history of the earth including the geography of the past and the evolution of life as interpreted through the study of rocks and fossils.

Three recitations and one laboratory period weekly. Occasional local field trips are taken. Attendance on one out-of-town field trip lasting two days or more may be required.

Divisible only in special cases with the approval of the Department.

*Three hours*, through the year. M. W. F., 8; Th., 2.

MR. LITTLE

**121a. Crystallography, Mineralogy, and Blowpipe Analysis.** A study of the geometrical forms assumed by minerals which are of assistance in their identification, a discussion of the physical properties of minerals which allow of their recognition, and the performance of simple chemical reactions, largely with dry reagents, which may supplement the preceding tests. Two class meetings and one laboratory period weekly.

*Three hours, first semester.*  
Omitted in 1930-31.

MR. LITTLE

**122b. Economic Geology.** A study of the origin of the deposits of useful minerals and a discussion of the world's more important occurrences. Special attention is given to the distribution and control among the various countries of non-metallic deposits such as coal, petroleum and phosphates; and deposits of metal such as iron, copper and gold. Elementary Chemistry and Geology are desirable. Two class meetings and one laboratory period weekly.

*Three hours, second semester.*  
Omitted in 1930-31.

MR. LITTLE

## DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH, ASSISTANT PROFESSOR BOSSHARD

The Department of German provides the necessary courses for those who wish to take German in partial satisfaction of the general requirements in foreign language, and through the alternation in successive years of the courses beyond the second year, which are open to men who have had either two or three years of German in college, provides opportunity also for those who wish to take this language as a major. A major in German consists of at least twenty-four semester hours selected from the courses announced here.

German 11 offers to those who have not previously studied German an opportunity to begin that language in college. German 12 provides a means of meeting the requirements of a course of second year college grade in foreign language. A full year course of two half-courses with numbers above 12 should be taken by those who plan to offer German in fulfillment of the requirement of three years' credit in some one foreign language.

### COURSES IN GERMAN

#### 1. PRIMARILY FOR UNDERGRADUATES

**11. Elementary German.** Drill in pronunciation and grammar; composition; reading of easy prose. Indivisible course.

Open to Freshmen.

*Three hours, through the year.* M. W. F., 8 and 9.

MR. BOSSHARD



**12. Second Year German.** Review of grammar, with some oral or written translation from English into German; the reading of several easy pieces of modern prose. The course is a continuation of German 11.

Open to Freshmen.

*Three hours*, through the year. T. Th. S., 9 and 12.

MR. RANDOLPH

**13. Advanced Reading and Composition.** The prime object of the course is to develop further the ability to read with accuracy and ease. Two meetings a week are devoted to reading; the texts employed are not especially difficult, but the assignments are of considerable length. The works read are varied from year to year. The third meeting in the week is devoted to German composition.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

*Three hours*, through the year.

MR. RANDOLPH

Omitted in 1930-31.

**14. Introduction to the Study of German Literature.** Particular attention is paid to the writers of the classical period; such texts are read as Lessing's *Minna von Barnhelm* and *Emilia Galotti*, Schiller's *Jungfrau von Orleans* and *Wilhelm Tell*, and Goethe's *Egmont* and *Hermann und Dorothea*. Lectures treat the history of German literature in outline from the earliest times down to the end of the eighteenth century, and deal more fully with the lives, writings and influence of the great classicists whose works are studied.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

*Three hours*, through the year. T. Th. S., 11.

MR. RANDOLPH

**16. Rapid Reading and Composition; Scientific German.** A course corresponding to German 13, and embodying the course in Scientific German formerly given separately. The chief aim of the course is to develop facility in reading.

For men not primarily interested in literature who desire to acquire skill in using German in their work in other fields.

*Three hours*, through the year. M. W. F., 11.

MR. BOSSHARD

**17b. Grillparzer and Hebbel.** German literature in the first half of the nineteenth century, with particular attention to the drama. The aims and methods of the course are similar to those of German 14.

German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

*Three hours*, through the year. T. Th. S., 11.

Omitted in 1930-31.

MR. RANDOLPH

**18. Advanced Reading and Conversation.** The course takes up through the medium of suitable German texts a variety of topics designed to acquaint the student with essential facts about Germany and the German people. About a third of each recitation hour is devoted to conversation in German. Open to students who have had at least three years of work in the language.

*Three hours*, through the year.

Omitted in 1930-31.

**19. The German Novel.** Lectures on the history and nature of the novel; the reading of a few modern novels in class; collateral reading and reports. In the beginning the lectures and reports are given in English, but in the second half year the course is conducted in German.

*Three hours*, through the year. M. F. W., 10.

Omitted in 1930-31.

MR. BOSSHARD

**191. Contemporary German Literature.** Lectures, interpretations, reading in class, collateral reading and reports. In the beginning the course is conducted in English, but in the second semester in German.

*Three hours*, through the year. M. W. F., 11.

Omitted in 1930-31.

MR. BOSSHARD

## DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE, PROFESSOR DENNIS,\* PROFESSOR  
HEDGES, ASSOCIATE PROFESSOR LEE, VISITING PROFESSOR  
SIR GEORGE YOUNG,\*\* DR. CONWELL-EVANS.\*\*\*

### UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education. The courses are not limited to a consideration of Europe and the United States, but include the progress and present-day conditions of the leading countries of South America, Asia, and Africa. While the work is designed primarily to give a cultural knowledge of general world affairs, many of the courses are of especial value to those who are preparing to teach, or to enter the field of law, theology, social service, or government.

Course 11, primarily for Freshmen, is open to members of all classes; courses 15, 16, 17 and 18 are open to Sophomores, Juniors and Seniors, although History 11 or its equivalent will normally be required as a prerequisite for courses 15, 16 and 18.

### GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of International Relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

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\*On leave of absence for 1930-31; died November 14, 1930.

\*\*September to December, 1930.

\*\*\*For January, 1931.

## FELLOWSHIPS IN HISTORY AND INTERNATIONAL RELATIONS

A Fellowship in American History, known as the American Antiquarian Society Fellowship, has been established by members of the American Antiquarian Society. It has an annual value of three hundred dollars in addition to remission of tuition fees.

The subject of research chosen by the Fellow for his Doctor's dissertation should be selected within the field of American History before 1880, the period in which the Library of the American Antiquarian Society, located in Worcester, is of greatest assistance to historical investigators. In addition to the society's valuable manuscripts of the Colonial period, it has an unequalled collection of books printed in America in the early period and of American newspapers from 1660 to 1860.

Regular University Fellowships and Scholarships are also available for students in this department.

## THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their doctorate will be enabled to secure a full program each year. Those taking History as a *major* are advised to elect their *minor* either in Geography or in Economics.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

*The following courses in related departments are closely connected with work in History, and may advantageously be taken to supplement major work in the Department of History and International Relations.*

## DEPARTMENT OF GEOGRAPHY

- 181b. Geography of North America.
- 185b. Geography of Europe.
- 311b. Physiographic Regions of North America.
- 319b. Physiographic Regions of the Eastern Hemisphere.
- 362b. Geographic Aspects of United States Foreign Trade.
- 37a. General Principles of Anthropogeography.
- 375a. Geography of Europe.
- 383a. Caribbean America.



**384b. South America.**

## DEPARTMENT OF ECONOMICS AND SOCIOLOGY

**14a. Economic History of Western Europe.****14b. Economic History of the United States.****31. International Economic Policies.**

## DEPARTMENT OF PSYCHOLOGY

**311. Social Psychology.**COURSES IN HISTORY AND  
INTERNATIONAL RELATIONS

## 1. PRIMARILY FOR UNDERGRADUATES

**11. Introduction to the History of Europe.** The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. The aim is to give a clear and accurate picture of the life and of the great movements of the medieval and early modern period. Indivisible course.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 10. MR. LEE

**15a. History of England from the 15th Century to the Present.** A general course. Lectures, textbooks, collateral reading and quizzes. The purpose is to discuss the life of Englishmen at home, in relation with the Continent, and in the Empire.

*Three hours*, through the year.

Omitted in 1930-31.

**16b. Europe Since 1815.** A general survey of the history of continental Europe from the end of the Napoleonic period to the present time. Attention will be given to the development of democracy and nationalism, the growth of modern imperialism and the partition of Africa, as well as the industrial revolution and the consequent spread of Socialism. Emphasis will be laid on the causes and course of the World War and on the present situation in Europe. History 11 or its equivalent is desirable as a prerequisite.

*Three hours*, second semester. Tu. Th. S., 11, MR. LEE

**17. American History Since 1783.** After a brief survey of the colonial beginnings of American history and the American Revolution, the course will treat carefully the period since 1783. Emphasis will be placed upon the newer points of view in the study and writing of American history.

Divisible only in special cases with the approval of the Department.

*Three hours*, through the year. T. Th. S., 9. MR. HEDGES

**18. A Survey of International Relations.** The course will give a general survey of the whole field of international relations and furnish a foundation for further and more specialized work. It will consider the chief factors involved in this study, such as race, nationality, historical tradition, population, boundaries, economic resources, and imperialism; and present an outline of the important concrete problems of the world at the present time.

*Three hours*, through the year. M. W. F., 11.

Omitted in 1930-31. MR. BLAKESLEE

**19b. France from the Renaissance to the Revolution.** This course will attempt to present in greater detail than is possible in History 11, the development of political and social conditions which eventually led to the French Revolution. In addition, some attention will be given to French foreign relations and French influence in European affairs. The work will be carried on by means of lectures, assigned readings, and written reports.

*Three hours*, second semester.

MR. LEE

Omitted in 1930-31.

**110a. Principles of Political Science and Progress of Political Thought.** An introductory review of the subject in its history and philosophy with special reference to theories of the nation and the state—of government, national, imperial, and international—of sovereignty, federalism, and pluralism. Illustrated from contemporary conditions, but concerned mainly with the past. Primarily for undergraduates with adequate prerequisites, but also open to graduate students.

*Three hours*, first semester. M. W. F., 9.

SIR GEORGE YOUNG AND MR. CONWELL-EVANS

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**21b. Selected Topics in Modern Diplomatic History.** Lectures and research work in various fields and world diplomacy. Among the topics which may be included are Anglo-French relations, the Near East, the diplomatic history of the Mediterranean basin, the partition of Africa, and Anglo-Russian relations.

*Two hours*, through one semester.

Omitted in 1930-31.

**22. The Pacific and the Far East.** The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific, stressing foreign affairs, government and politics, and economic, industrial and commercial conditions. A careful study is made of the relations, diplomatic and commercial, with the United States.

*Three hours*, through the year. M. W. F., 9.

MR. BLAKESLEE

**23a. Central Europe in the 19th Century.** This course is concerned chiefly with Germany and Austria-Hungary. After a few introductory lectures the problem of German unity, German supremacy after 1870, the economic development of the German Empire, and the national movements as well as the foreign policy of Austria-Hungary are taken up. History 16b or its equivalent is prerequisite.

*Three hours*, first semester.

MR. LEE

Omitted in 1930-31.

**24b. The History of France and the Latin States of Europe in the Nineteenth Century.** The general history of France, Italy and Spain, since the end of the Napoleonic Wars. The course will include the constitutional movement in France and Spain, the story of the Italian Risorgimento, the industrialization of France and Italy, and finally the general Mediterranean questions as they were affected by the World War and by the peace settlement. The course presupposes a general knowledge of the history of the nineteenth century such as may be obtained from History 16.

*Three hours*, second semester. Th., 3-5.

MR. LEE

**25a. British India.** A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and the recent developments toward self-government. Economic relations with Europe, military history, the expansion of Indian relations with other parts of the world, immigration, and religious and revolutionary movements are among the topics considered.

*Two hours*, first semester.

Omitted in 1930-31.

**26a. Napoleon Bonaparte.** The career of Napoleon, with emphasis upon international relations, including colonial policy, and the influence of Napoleon on world politics.

*Two hours*, first semester.

Omitted in 1930-31.

**27. Latin America.** A survey of the history of the various Latin American countries is followed by a consideration of international diplomacy, political problems, systems of government, race questions, economic and industrial conditions. Emphasis is placed upon the relations, both in trade and diplomacy, with the United States. Present problems are stressed, such as the Monroe Doctrine, Pan-Americanism, the Mexican issue, and the American administration of Haiti and Santo Domingo.

*Three hours*, through the year.

MR. BLAKESLEE

Omitted in 1930-31.

**28a. The Recent History of the British Empire.** An analysis of the British Imperial possessions, emphasizing the developments and problems of the last quarter century.

*Two hours*, first semester.

Omitted in 1930-31.

**29a. Russia.** The aim of this course is to present Russian internal development from the origin of the Kievan state to the present time. Special emphasis is placed on the revolutionary movements of the 19th century, the revolution of 1917 and the Soviet régime since that date. History 11 and 16b or their equivalents are prerequisite.

*Three hours*, first semester. T. Th. S., 11.

MR. LEE

To be omitted in 1931-32.



**201. Social and Intellectual History of the United States.**

This course is designed to study American History from a fresh point of view. Excluding the traditional political approach to American history, it deals with the life of the people—social movements in education, economic life, artistic interests, reform movements, manners, and morals.

*Three hours*, through the year.

MR. HEDGES

Omitted in 1930-31.

**211a. The Historical Geography of the United States.** The course will consist of a study of the geographic factors in the development of the social, economic, political and institutional life of the American people from colonial times to the present. History 17 or its equivalent will normally be a prerequisite.

*Three hours*, first semester.

MR. HEDGES

Omitted in 1930-31.

**213. Constitutional History of the United States.** In this course the Constitution will be treated as a growing organism, responsive to the changing political, social and economic conditions of the country. The course will begin with a discussion of the origins of the American Constitution. There will be careful discussion of the important cases which established basic principles of constitutional law. Important constitutional developments will be correlated with the changes in American life and society which called them into being.

Open to advanced undergraduates and graduates who have had a thorough college course in general American history.

*Three hours*, through the year. T. Th. S., 10. MR. HEDGES

**231. International Law.** A general course adapted for advanced students who will do a large amount of independent reading. The principles of international law are presented and then illustrated by recent and pending international controversies of a legal nature. Lectures, textbooks, class discussions, and the study of the important cases in standard collections.

*Three hours*, through the year. M. W. F., 10.

MR. BLAKESLEE

**241a. The United States Since 1865.** A synthesis of the political, social and economic forces in the development of the

United States since the Civil War. The course will be developed by topics and emphasis will be placed upon interpretation rather than narration. A reasonable familiarity with the period will be assumed. Prerequisite: History 17 or its equivalent.

*Three hours*, first semester.

MR. HEDGES

Omitted in 1930-31.

**242b. American Colonial History to 1776.** A study of the European background of American history, the expansion of European peoples into the New World, the various European Colonial systems, the struggle for Colonial supremacy in North America and the background and causes of the American Revolution. Prerequisite: History 17 or its equivalent.

*Three hours*, second semester.

MR. HEDGES

Omitted in 1930-31.

**250a. Comparative Post-War Constitutions.** An application in detail of the analysis and argument presented in History 110, to post-war constitutional changes with an examination of the political forces operating in Europe and of the political forms they are producing—with special reference to two examples of constitutions in evolution, Great Britain and Germany; and to two in revolution, the Soviet Union and Italian Corporative State. The Soviet system will only be dealt with comparatively and in correlation to other systems.

*Three hours*, first semester. M. W. F., 11.

SIR GEORGE YOUNG AND MR. CONWELL-EVANS

### 3. PRIMARILY FOR GRADUATE STUDENTS

**32. Recent International Relations of the United States.** A lecture and research course covering the period from the Civil War to the present, with emphasis upon American foreign policies during and since the World War. Especial consideration is given to the history and present status of American relations with Great Britain, Germany and France; the Monroe Doctrine, the Caribbean and the Open Door policies; and the rival doctrines of Isolation and International Co-operation.

*Two hours*, through the year. M. W., 3.

MR. BLAKESLEE

**321. Selected Topics in Recent British History.** A research

course based upon a study of source material. The fields of investigation will change from year to year.

*Two hours, first semester.*

Omitted in 1930-31.

**331. European International Relations, 1870-1918.** A study of the diplomatic history of Europe from the Congress of Berlin to the Peace of Versailles on the basis of the abundant source material recently published. Bismarck's system of alliances and the hegemony of Germany, the development of the Eastern question and the estrangement of Austria and Russia, the Franco-Russian Alliance, the growing rivalry of Germany and England, the Entente Cordiale and the diplomatic aspect of the World War are all studied.

*Two hours, through the year. Th. 3.*

MR. LEE

Omitted in 1930-31.

**332a. Historical Bibliography and Criticism.** A study in the methods of historical research and writing. Introductory lectures on the nature and aims of history and examination of the methods in criticizing and interpreting documents. Practice in synthesizing material and a survey of the various schools of historical writing from the time of Herodotus to the present day.

*Two hours, first semester.*

MR. LEE

Omitted in 1930-31.

**333a. Topics in the Recent and Contemporary History of Continental Europe.** The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day. Such questions as Fascism in Italy, the nationalist problems in the Succession States of the Austrian Empire, the whole organization of the Danube Basin, Republicanism and Democracy in Germany, Bolshevism, and the nationalist movement in Turkey will be taken up as well as some of the more strictly continental international problems, such as reparations and territorial questions.

*Two hours, first semester. Th., 3.*

MR. LEE

**342. The Influence of Westward Expansion in American Development.** The westward movement from colonial times to the passing of the frontier will be discussed in detail. The influ-

ence of westward expansion in moulding American character and shaping the peculiar course of American history in the 19th century; the problems arising from the colonization of the west and the reaction of these problems upon national development will be considered. The adjustments made necessary by the passing of the frontier will also be emphasized.

*Two hours*, through the year. T., 3-5. MR. HEDGES

**345a. The Relationship between Europe and Asia and the Revolutionized Regions of the Near and Middle East.** A review of the causes of the collapse of the Ottoman Empire and Islamic State—of the conditions thereby created—and of the consequences that may be expected—with special reference to Turkey, Persia, Afghanistan, India, Arabia, Syria, Palestine, Egypt and North Africa.

*Two hours*, first semester. M. W., 4.

SIR GEORGE YOUNG AND MR. CONWELL-EVANS

**351. Research in the International Relations of the United States.**

MR. BLAKESLEE

**352. Research in the International Relations of the Pacific and the Far East.**

MR. BLAKESLEE

**353. Research in the History and International Relations of the British Empire.**

**354. Research in the History and International Relations of Continental Europe.**

MR. LEE

**355. Research in the History of the United States.**

MR. HEDGES

**36. Seminar.** The students in the Department of History and International Relations meet one evening a week for the study of particular topics in international relations, the consideration of the results of investigation carried on in the Department, and for the review of book and magazine material of especial value. Each member is expected to present reports which then form the basis for general discussion.

*Weekly*, through the year. Tu., 7.

MESSRS. BLAKESLEE, HEDGES, LEE, YOUNG  
AND CONWELL-EVANS



## DEPARTMENT OF MATHEMATICS

PROFESSOR WILLIAMS, ASSOCIATE PROFESSOR MELVILLE

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of Mathematics that will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced study in Mathematics.

A *major* in Mathematics consists of twenty-four semester hours, including courses 12, 13 and 14; a *minor* consists of eighteen semester hours, including course 12.

Mathematics 10 or 11 is required in the freshman year of all students who expect to elect a major in Division A. Mathematics 12 is a departmental requirement for those who major in Physics.

### MATERIAL FACILITIES

The Library is provided with the more important text-books, treatises, and memoirs on the various branches of Mathematics, as well as the principal journals and transactions of learned societies that are devoted to any considerable extent to Mathematics. The Department possesses a good collection of models in addition to an adequate instrumental equipment for the work in applied mathematics.

## COURSES IN MATHEMATICS

### 1. PRIMARILY FOR UNDERGRADUATES

**10. Elementary Course.** For students who enter with two or more units of Mathematics and do not expect to major in Mathematics or Physics. Students who complete this course with a satisfactory record may enter course 11 at the beginning of the second semester of the following year.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 8.

MR. MELVILLE

**11. Introductory Course.** For students with *major* or *minor* in Mathematics or Physics. Elements of plane Analytic Geometry, including the straight line; plane Trigonometry; elementary theory of equations including Horner's method and De Moivre's

Theorem for complex numbers; elements of determinants; and elements of differential and integral calculus. "Unified" course. Open to Freshman.

*Three hours*, through the year. M. W. F., 9.

MR. WILLIAMS

**12. Calculus and Analytic Geometry.** Differential and integral calculus and Analytic Geometry, a continuation of course 11.

*Three hours*, through the year. M. W. F., 11.

MR. WILLIAMS

**13. Calculus and Analytic Geometry, Plane Curves and Three Dimensions.** A continuation of course 12 with applications to solutions of problems.

*Three hours*, through the year. Tu. Th. S., 9.

MR. WILLIAMS

Omitted in 1930-31.

**14. Differential Equations.**

*Three hours*, through the year. Tu. Th. S., 10.

MR. WILLIAMS

**15. Vector Analysis, and Various Topics.**

*Three hours*, through the year. Tu. Th. S., 9.

MR. WILLIAMS

**19a. Astronomy.** Chiefly descriptive, the object being to make students acquainted with the main features of the heavens, celestial phenomena and laws governing them, and the most important theories that have been devised to explain them.

Alternates with course 110a.

Open to Freshmen.

*Three hours*, first semester. To be arranged. MR. WILLIAMS

Omitted in 1930-31.

**110b. Elementary Surveying.** Fundamental principles; field work with transit, level, sextant, compass, and chain; map making and map reading.

Alternates with course 19b.

Open to Freshmen who have had trigonometry.

*Three hours*, second semester.

MR. WILLIAMS

Omitted in 1930-31.

**113a. Mathematical Theory of Statistics.** Introductory course for graduate students in Geography, Biology, Economics and Psychology.

*Three hours, first semester.*

MR. WILLIAMS

Omitted in 1930-31.

## DEPARTMENT OF PHYSICS\*

PROFESSOR GODDARD,\*\* ASSISTANT PROFESSOR ROOPE,  
MR. POINDEXTER

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts, and without which no one may hope to be considered liberally educated. The Department aims also to fit students in the minimum of time with professional preparations for Chemistry, Meteorology and allied sciences, Medicine, Engineering and Science teaching, as well as for professional or graduate work in Physics.

The Department will be glad to discuss, with those desiring to follow Physics as a profession, the opportunities in teaching and in industrial laboratories, and to arrange programs of courses best suited to individual requirements.

For students majoring in Physics, the following sequence of courses is recommended:

Course	Prerequisites		Prerequisites
	Year	Physics	Mathematics
11	First	None	None
14	Second	11	None
15	Second	11	12
13	Third	11	11
22 or 23	Third	11	12
23 or 22	Fourth	11	12
28	Fourth	11	12

Sequences for students not majoring in Physics are as follows:

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\*Beginning September 1931, the Department of Physics is authorized to accept students intending to proceed to the degree of Doctor of Philosophy. Actual enrollment of such students will be deferred until Professor Goddard's return to active work in the department.

\*\*Absent on leave, 1930-31.

Physics as a minor: Courses 11, 14, and one or more of 15, 17, 22, 23, 28.

Pre-medical course: Course 11.

Major in Chemistry: Courses 11, 14 and 15, 23 or 28.

Major in Biology: Courses 11, 14, and 28.

Major in Meteorology and Climatology: Courses 11, 14, and 15.

## GRADUATE WORK

Work leading to the degree of Doctor of Philosophy in Physics will be offered upon the return of Professor Goddard from leave of absence for research work.

The Department is prepared to give the degree of Master of Arts in Physics, for those planning to teach Physics, to undertake research work in industrial and government laboratories, and also as a preparation for those planning to take more advanced degrees. For this work, emphasis is placed not only upon Mathematical Physics, but also upon the undertaking of an original research problem, for which work the laboratories and library provide unusual facilities.

In case the minor for graduate students is in Mathematics courses may be arranged with the Mathematics Department, or a special course on applied Mathematics may be taken under the Physics Department, based on Mellor's *Higher Mathematics for Students of Chemistry and Physics*.

A course in Meteorology through the year is given in the Department of Geography. More advanced work in Physics of the Air may be arranged through the co-operation of the departments of Physics and Geography.

## COURSES IN PHYSICS

### 1. PRIMARILY FOR UNDERGRADUATES

**11. General Physics.** This course gives a general knowledge of the principles of Physics, as applied in industry and in the household, and also of the newer developments of Physics, including the elementary theory of radio, Roentgen rays, and the electrical basis of matter. It is desirable for all students intending to specialize in Chemistry, Biology, Mathematics, Law, or Medicine, and is the natural starting point for those desiring to do further



work in Physics. It may also be taken as a general science course by those not majoring in science. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The textbook is Duff's *General Physics*. Mathematics 11 is advised, but not required. Since this course consists of three lectures and recitations, and one laboratory period per week, it is generally accepted by medical schools as fulfilling the requirement of eight semester hours in Physics. Inidvisible course.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10; W. or Th., 2.

MR. ROOPE

**13. History of Physics.** A conference course on the history of the various branches of Physics. This course is not accepted as a major or minor credit course. Prerequisite: Physics 11.

*Three hours*, through the year.

MR. ROOPE

Omitted in 1930-31.

**14. Mechanical and Electrical Measurements.** During the first semester this course consists of electrical measurements, including inductance, capacity, and conduction, by various methods, together with advanced problems in optics. In the second semester the course consists of laboratory exercises in dynamics, including kinetics of translation, angular momentum, the gyroscope, and elastic properties of materials, followed by advanced problems in heat.

*Three hours*, through the year. Tu. W. F., 2.

MR. POINDEXTER

**15. Thermodynamics and Optics.** The work of the first semester is in thermodynamics, including the thermal properties of the solid, liquid, and gaseous states, and the theory of heat engines. The second semester covers geometrical and physical optics, and includes work in practical photography. The respective text-books are *Heat for Advanced Students*, Edser, and *A Treatise on Light*, Houstoun. Prerequisite, Physics 11.

*Three hours*, through the year. M. W. F., 9.

MR. ROOPE

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**22. Theoretical Mechanics.** This course is a systematic presentation of theory by lectures and recitations together with the solution of problems. The work includes statics, kinematics and dynamics of translation and rotation of bodies, mechanical oscillations, and dimensional equations. The text-book is Seely and Ensign, *Analytical Mechanics for Engineers*. Mathematics 12 must be taken before or with this course.

*Three hours*, through the year.

MR. POINDEXTER

Omitted in 1930-31.

**23. Theory of Electricity and Magnetism.** This course treats the general principles of dynamo and motor design, high-frequency phenomena as involved in radio, radio-activity, and the electron theory of matter. The course is of particular importance to those intending to specialize in Physics, Mathematics, or Engineering. The prerequisites are Physics 11 and Mathematics 11; Mathematics 12 must be taken before or with this course. A knowledge of differential equations is advised. The textbook is Starling's *Electricity and Magnetism*.

*Three hours*, through the year. M. W. F., 8.

To be omitted in 1931-32.

MR. POINDEXTER

**27. Preliminary Mathematical Physics.** This course involves reading on specially assigned topics. The object is to provide a comprehensive background for advanced work in physics. Open only to undergraduate majors in physics, of high standing.

*Three hours*, through the year.

MR. ROOPE

Omitted in 1930-31.

**28a. Laboratory Methods.** A course in the methods of preparing and presenting the results of experiments, involving precision of measurement, method of least squares, mean value, logarithmic plotting, derivation of formulae from experimental data, mechanical integration and differentiation, vector analysis, and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. This course is recommended for students specializing in any of the sciences which involve laboratory work. Prerequisite, Physics 11.

*Three hours*, first semester. M. W. F., 11.

MR. ROOPE

**29b. Selected Studies in Physics of the Air.** An opportunity for a more profound study of certain phases of meteorology, based on W. J. Humphrey's "Physics of the Air."

Prerequisite: Geography 220a.

*One hour*, second semester.

PROFESSORS BROOKS AND ROOPE

Omitted in 1930-31.

#### PRIMARILY FOR GRADUATE STUDENTS

**34. Advanced Mechanics.** This course includes vector analysis, the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions, together with a discussion of applications to various branches of Physics. The motion of rigid bodies, the theory of moving axes, and the theory and application of the gyroscope are also treated.

*Three hours*, through the year. Tu. Th. S., 10. MR. ROOPE

**35. Advanced Electricity and Magnetism.** The theory of electricity and magnetism is treated from the classical and the modern viewpoints, and includes the theory of the electro-magnetic field, generalized impedance, electric waves, and recent developments.

*Three hours*, through the year. T. Th. S., 11. MR. ROOPE

**36. The Partial Differential Equations of Mathematical Physics.** Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

*Two hours*, through the year.

MR. POINDEXTER

**37. Research Work in Physics.** Research work on an original problem in Physics. Required of candidates for the Master's degree.

MR. ROOPE

**310. Seminar and Research Conference.** A seminar on modern theories of Physics, together with conferences on current literature and on the researches in progress.

*Once a week*, through the year. W., 4-6.

THE STAFF OF THE DEPARTMENT

## DEPARTMENT OF PSYCHOLOGY\*

PROFESSOR MURCHISON, PROFESSOR HUNTER,\*\* PROFESSOR NAFE,  
ASSOCIATE PROFESSOR JONES (PROFESSOR HOAGLAND)\*\*\*

### LABORATORY FACILITIES

The Psychological Laboratories occupy thirty-two rooms on the third floor of the Main Building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed and complete psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus and is especially complete in the better types of chronoscopes, the Vernier chronoscope being invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations. The workshop contains an excellent equipment for the manufacture and repair of apparatus. The animal laboratory is easily one of the largest and best equipped in the country.

### LIBRARY FACILITIES

The library facilities for research in Psychology, Anthropology and Education are exceptional both in range and in quality. Approximately one-half of the entire Clark University Library consists of reference works in these fields. All the important psychological journals in the world come regularly to the library.

### FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

In addition to assistantships in psychology, a generous number of scholarships and fellowships are available from year to year ranging in value from \$150 to \$600.

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\*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27.

\*\*Absent on leave, second semester, 1930-31.

\*\*\*Beginning September 1931, the Department of Biology will be re-organized in close co-operation with the Department of Psychology.



## UNDERGRADUATE WORK

The Department offers work in general elementary psychology, elementary experimental psychology, elementary educational psychology, and will offer such additional courses to undergraduates as will make possible a major in psychology.

## GRADUATE WORK

*NOTE: Beginning with September, 1931, the organization involves a relationship between the Department of Biology and the Department of Psychology whereby students in either Department may be credited with certain advanced courses and research in the other.*

**Admission.** Admission to graduate work in Psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the Department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the successful conduct of graduate work. Admission is not open to those who have never had training in elementary Psychology.

**Courses.** Each graduate student in full residence in the University is required to carry a full schedule of courses, such courses to be selected with the advice of the instructors concerned and with the approval of the Department. The courses in the Department are planned so as to give each student working for an advanced degree such necessary training as courses can give.

**The Master's Degree.** The general university requirements for the master's degree are explained elsewhere in the catalogue. The Department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

**The Doctor's Degree.** Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more

of these methods in original research on important problems. The thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the student during the final year in residence. A student will be unable to receive his degree in less than three years unless he comes credited with graduate work elsewhere.

**Theses.** In addition to the general university requirements concerning the preparation and delivery of theses, the Department has a supplementary requirement of an additional copy of each thesis, to remain on file in the Department.

## COURSES IN PSYCHOLOGY

### 1. PRIMARILY FOR UNDERGRADUATES

**11a. General Elementary Psychology.** This course is an introductory course in elementary psychology, and is prerequisite for all the following courses in the Department. Textbook lectures and collateral reading.

Open to Freshmen.

*Three hours*, first semester. Tu. Th. S., 11. MR. NAFE

**12b. Experimental Psychology.** Lectures, laboratory and collateral reading. Students will be made familiar, by use, with the apparatus used in psychological investigations. This course or its equivalent is prerequisite to 200a, 201b, 202a and 203b and to all work for advanced degrees.

Open to Freshmen.

*Three hours*, second semester. Tu. Th., 2. W. at 2 may be substituted for either Tu. or Th. MR. NAFE

**14a. Elementary Educational Psychology.** A study of the dynamics behind conduct and of the interaction between these "drives" and school processes. Attention will be given to the nature versus nurture controversy. The bearing of factors of personality on school and after-school success will receive some attention.

In addition to the scheduled meetings, a third weekly meeting is to be arranged.

*Three hours*, first semester. Tu. W. Th., 12. MR. JONES

**15b. Individual Differences and Exceptional Children.** A review will be given of the latest contributions to the problem of individual differences. Study will be made of various current policies in dealing with this problem in public and private schools. Some attention will be devoted to exceptionally bright and exceptionally dull children, and various methods, past and present, employed by schools in teaching such children will be examined.

In addition to the two scheduled meetings, a third weekly meeting is to be arranged.

*Three hours*, second semester. Tu. Th., 11. Additional hour to be arranged. MR. JONES

**16a. Principles of Education.** School's responsibilities in preserving the race heritage; education past and present as related to health, family life, economic life, recreation and religious life; functions and policies of the elementary school, the secondary school, and the college in view of the present social, political, and economic conditions of the United States; American education and world citizenship.

*Three hours*, first semester. M. W. F., 10. MR. JONES

**17b. Philosophical and Historical Foundations of Modern Education.** By assigned readings, reports, and discussions some of the concepts underlying modern educational policies and practices will be studied. By way of illustration, frequent comparisons will be made between the present educational aims and procedures in the New World and those in some of the countries of the Near East.

*Three hours*, second semester. M. W. F., 10. MR. JONES

**18b. Fields of Psychology.** An introduction to the different fields of psychology, including Experimental, Social, Child, Abnormal, Applied and other branches of the science. Also an introduction to statistical methods. Open to students who have completed Psychology 11a. Number limited.

*Three hours*, second semester. Tu. Th. S., 10.

To be omitted in 1931-1932.

MR. NAFE AND STUDENT ASSISTANTS

DEPARTMENT OF PSYCHOLOGY  
CLARK UNIVERSITY

STAFF

MR. MURCHISON  
WALTER S. HUNTER  
JOHN P. NAPE  
LEMON JONES

WORCESTER, MASSACHUSETTS  
U. S. A.

Feb. 18, 1931

Dear Mr. Melville:

*Accepted  
explain  
EB  
clerk*

Mr. Sherman and Mr. Watson have been permitted to petition for individual work in educative psychology with me. The Dean thinks it a good plan, and both men have done very good work with me up to date.

Will you assign the course some number perhaps 26b or something like that. I believe my other courses should be changed to 21a, 22b, 23a and 24b inform their present numbers, 14a, 15b, 16a and 17b because only third and fourth year men profit by them. If this change should ever be made we should change the number of this individual-work course to be high in number than either one of these.

Very truly yours,

Lemon Jones





## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**200a. Physiological Psychology.** This course together with 201b, 202a, and 203b offers a two-year course in which the semester units are separable. It is a systematic study of the work that has been done in Experimental Psychology. Lectures, discussions, and collateral reading. 200a deals with vision.

*Three hours*, first semester. Tu. Th. S., 9. MR. NAFE

To be omitted in 1931-32 and alternate years.

**201b. Physiological Psychology.** Audition, smell and taste.

*Three hours*, second semester. Tu. Th. S., 9. MR. NAFE

To be omitted in 1931-32 and alternate years.

**202a. Physiological Psychology.** Feeling and emotion.

*Three hours*, first semester. Tu. Th. S., 9. MR. NAFE

Omitted in 1930-31 and alternate years.

**203b. Physiological Psychology.** The higher mental processes, perception and ideation. The position of association, memory, imagination, thought, action and volition in psychology.

*Three hours*, second semester. Tu. Th. S., 9. MR. NAFE

Omitted in 1930-31 and alternate years.

**Biology 205a. General Physiology.** (For description, see announcement of Biology Department).

**Biology 205b. General Physiology.** (For description, see announcement of Biology Department).

**206a. Animal Behavior.** A study of animal behavior with particular reference to the vertebrates. Emphasis will be placed upon the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. The course offers an introduction to the current theory of behaviorism. Laboratory work, by appointment, will occupy one-third of the course.

*Three hours*, first semester. M. W. F., 11. MR. HUNTER

**207a. The Learning Process.** A critical and experimental study of the chief problems of learning and memory. One-third of the course will be devoted to laboratory work at hours to be arranged.

*Three hours*, first semester. Tu. Th. S., 11. MR. HUNTER

Omitted in 1930-31.

**212. Advanced Experimental Psychology.** Open only on consultation. The course consists of minor problems. The student will have an opportunity to demonstrate his laboratory ingenuity and technique. MR. NAFE

### 3. PRIMARILY FOR GRADUATE STUDENTS

**301b. Seminar in the Principles of Psychology.** A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

*Two hours*, second semester. Tu., 11. MR. HUNTER

**302b. Seminar in the Principles of Psychology.** A continuation of the 301b Seminar, but not necessarily preceded by it. The topics for discussion will be drawn from the whole field of theoretical psychology. Students may enroll in this seminar for several successive years.

*Two hours*, second semester. Th. 11. MR. HUNTER

**304. Journal Club.** To be devoted to the study of selected topics in current psychological literature. All students *majoring* in Psychology for advanced degrees are members of the Journal Club.

Through the year. W., 4.

MESSRS. MURCHISON, HUNTER, NAFE AND JONES

**305. Research.** This course is intended primarily for graduate students engaged in research for the Doctor's degree. It is also open to other students for the investigation of some special problem. Prerequisite, the consent of the Instructor under whom the work is to be done.

MESSRS. MURCHISON, HUNTER, NAFE AND JONES

**Biology 306. Analysis of Conduct.** (For description, see announcement of Biology Department).

**Biology 307. Nervous System Dynamics.** (For description, see announcement of Biology Department).

**Biology 308. Research: Dynamics of Vital Phenomena.** (For description see announcement of the department of Biology).

**310. Child Behavior.** This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

*Two hours*, through the year. F., 4. MR. MURCHISON

**311. Social Psychology.** A systematic survey of the literature of social psychology, with special emphasis on such literature as is available concerning the psychology of society.

*Two hours*, through the year. Th., 4. MR. MURCHISON

**313a. Advanced Educational Psychology: Techniques of Quantitative Experimentation in Education.** The purpose of the course will be to give practice in the use of some of the most valuable statistical methods. Among the topics that will receive attention are: variability; reliability; correlation, including contingency coefficients and biserial  $r$ ; partial and multiple correlation; line of relation; correlation ratio; regression equations; and methods of weighting. Students will be invited to submit problems arising in their own experimentation, and a great deal of the practice on the techniques will come through solutions to these real problems. In the class periods attention will be given not only to statistical measures but also to methods of setting up experiments.

*Two hours*, first semester. Tu., 4. MR. JONES

**314b. Methods in Educational Measurement.** General trends in the measurement of intelligence and school achievement during the last five years will be discussed briefly under the following headings: measurement and aims in education; measurement and methods in teaching; measurement in determining school policies; measurement in classification, diagnosis and prognosis; reliability and validity in measurement. Much emphasis will be placed on the following: improvement of marking systems; making of local objective tests; process of standardization of examinations; methods whereby teachers may measure their own efficiency in instruction; techniques of experimentation available for teachers, principals and directors of bureaus of educational research; methods of conducting school surveys and of interpreting results; measurement in character and health education; unmeasurable factors in education.

*Two hours*, second semester. Tu., 4. MR. JONES



## DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR POUSLAND

See the statement of the general requirement in foreign language page 52 for all candidates for the A.B. degree in the announcement of the Undergraduate Division (Clark College).

As now organized, the French courses in this Department are planned with the following ends in view: French 11 and 12 are the basic language courses, in which it is the purpose to develop reading power and some ability to understand the spoken language, with at least a beginning of writing and speaking. When possible a student should take the full twelve hours of this sort of work. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature; both may of course be taken. Those who wish to continue the study of literature after taking 14, will take the "General View," Course 114, which may be followed by the courses in which the literature of the 17th, 18th, 19th and 20th centuries is studied intensively (courses 15, 19, 16, 119); maturer students with the proper background may take 114 without having had 14, or may go directly from 14 to the advanced courses. Those interested primarily in the study of the language will take 13 and then 17, the latter being especially valuable for teachers of French.

A *major* in Romance Languages consists of at least twenty-four semester hours selected from the courses described below.

A typical *major* for a student who has had three years of French in the high school would include courses 13, 14, 114 and one of the intensive courses in literature (15, 19, 16, 119) or the Advanced Composition course (17). Those who have had French for two years in high school would begin with French 12. A beginner would take 11, 12, 13 or 14 (or both), and 114.

## COURSES IN FRENCH

## 1. PRIMARILY FOR UNDERGRADUATES

**11. For Beginners.** Grammar, pronunciation, oral work, and composition, based on Churchman's *Phonetic Gateway to French* and Fraser and Squair's *Elementary French Grammar*. For a

proper orientation in aural-oral work, the phonetic approach is used, and oral exercises are utilized throughout as a basis for speaking ability and for general language drill; but the main purpose of the course is to develop reading ability, Greenberg's *French Silent Reader* and Ford and Hicks' *New French Reader* being used side by side, with the purpose of developing both the cursory and the intensive types of reading. The four-phase method is used throughout, the emphasis being first upon reading, secondly upon aural comprehension, thirdly upon constructive work in writing, and finally upon oral exercises.

Not divisible.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10.

MR. CHURCHMAN

Possibly omitted in alternate years, beginning in 1931-32.

**12. Intermediate.** Reading of modern French, with grammar, composition, pronunciation, and oral exercises. Course 12 is a continuation of course 11, and is also open to students who have had two years of high school French. Grammar review and composition from Fraser and Squair's *Shorter French Course*. Reading from such works as George Sand's *la Mare au diable*, Prévost's *Mon cher Tommy*, Labiche and Martin's *le Voyage de M. Perrichon*, France's *le Crime de Sylvestre Bonnard*.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 8. MR. POUSLAND

**13. Advanced French.** This course is designed to continue and supplement the language work of course 12; it is also open to students who have had three years of high school French. Since the parallel course (14) offers ample opportunity for the development of reading ability, the emphasis in this course is placed upon the spoken and written language. (Brown and Chapman's *French Composition and Conversation*). The major part of the early work is devoted to a careful study of pronunciation on a phonetic basis (Churchman and Hacker: *First Phonetic French Course*).

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 12.

MR. CHURCHMAN

**14. Readings in French Literature.** This course is an initiation into French literature within the scope of students still without much literary background and in need of further training in accurate reading. It is normally open to students who have had three years of French in the high school or French 12 in college, and is the natural course with which to begin the study of literature; mature students, however, who have some literary background and have done exceptional work in French 12 or 13, may take 114 without having had 14. The work of this course consists of the careful translation of selected masterpieces (entire), beginning with some recent author like Anatole France and working backward to the Classical authors of the 17th century. The object of the work will be to increase the student's capacity for intelligent reading of difficult French, to give him a first-hand acquaintance with certain literary masterpieces, and to lay a foundation for literary appreciation and criticism, with a ready control of a few of the essential facts of literary history. G. L. Strachey's *Landmarks in French Literature* is read rapidly for general content, while Chinard's *Petite Histoire des lettres françaises* serves as the basic text-book for a careful survey of the history of French literature. At least two masterpieces from each century are studied thoroughly from all points of view.

NOTE: *Courses 13 and 14 are of equal difficulty. Either one may be taken upon the completion of French 12 or three years of high school French.*

Open to Freshmen.

Three hours, through the year. Tu. Th. Sat., 12.

MR. POUSLAND

**114. General View of French Literature.** This course would ordinarily be preceded by French 14, but it is open also to students with good literary background who have been in the upper quarter of French 12, or the upper half of French 13, or who have had at least four years of French in the high school. Its aim is to give a unified account of the development of French literature from the beginning to the present time. The early texts are read in translation or in modernized French versions; Paris-Langlois: *Chrestomathie du moyen âge* and Bush-Young: *Sixteenth Century French Anthology*. Of the material since

1600, some is carefully translated, and some read for the meaning only, from Vreeland and Michaud's *Anthology of French Prose and Poetry* and Harper's *French Anthology* (Sirich and Barton). The manual of literature used is *French Literature in Outline* by Churchman and Young; material from G. L. Strachey's *Landmarks in French Literature* is also considered.

Three hours, through the year.

MR. CHURCHMAN

Omitted in 1930-31.

NOTE: For admission to French 15, 16, 19, and 119, it is ordinarily expected that a student will have passed French 114. Any of these four courses may be taken by qualified students in any year as a private conference course by arrangement with the instructor and the Collegiate Board.

**15. Literature of the Seventeenth Century.** A large amount of reading from the works of Corneille, Racine, Molière, Boileau, La Fontaine, Descartes, Pascal, La Rochefoucauld, Bossuet, La Bruyère, Mme. de Sévigné. Selections from the minor authors contained in *An Anthology of Seventeenth Century French Literature* (Princeton University Press). Historical and critical survey of the literature of the period, based upon Abry, Audic and Crouzet's *Histoire illustrée de la littérature française* and the works of other critics. The main purpose of this course is to give the student a first-hand knowledge of the masterpieces of French classical literature, with a connected and critical knowledge of the literary history of the period. Few lectures, and a minimum of translation, the time in the class-room being devoted to discussion and reading in the original. For conditions of admission, see note above.

Three hours, through the year.

MR. CHURCHMAN

Omitted in 1930-31.

**16. Literature of the Nineteenth Century.** Historical and critical survey, with wide reading from the most significant authors of the century up to the year 1890. The spirit, method, and plan of the work are similar to those of course 15. After a discussion of the later eighteenth century and of the work of Chateaubriand and Madame de Staël comes the intensive study of the literary masterpieces of the nineteenth century, especially lyric poetry, drama, and the novel, accompanied by a discussion of



the facts and comment contained in Abry, Audic and Crouzet's *Historie illustrée de la littérature française* and in the writings of other critics. Galland and Cros: *Nineteenth Century French Prose*, and G. N. Henning *French Lyrics of the Nineteenth Century*. Selected masterpieces entire. Few if any lectures, and no translation. For conditions of admission to this course see note above.

*Three hours*, through the year.

MR. CHURCHMAN

Omitted in 1930-31.

#### 17. Phonetics, Advanced Composition and Oral Work.

Designed to provide teachers and other advanced students with a ready command of the spoken and written language. Review of the theory and practice of pronunciation upon a phonetic basis. Systematic study of grammar and syntax through a hasty survey of R. T. Holbrook's *Living French*, a thorough mastery of E. C. Armstrong's *Syntax of the French Verb*, and special study of selected topics by means of references to several standard authorities. Oral work of various sorts. Reports on important longer works in the field of phonetics. Open to students who have passed course 13 with credit, or who have done work equivalent in kind and amount.

*Three hours*, through the year.

MR. CHURCHMAN

Omitted in 1930-31.

19. **Literature of the Eighteenth Century.** Historical and critical survey, with wide reading from the most significant authors of the century. Essential texts are Schinz' *Eighteenth Century French Readings* and Bremer-Goodyear's *Eigtheenth Century French Plays*. Stress will be placed upon the social background and importance of the century in the development of modern ideas, with particular emphasis on Voltaire and Rousseau. Constant use will be made of such manuals as Abry, Audic and Crouzet's *Histoire illustrée de la littérature française*. The spirit, method, and plan of the work are similar to those of course 15. Some careful translation, lectures (occasionally in French), discussions, reports, collateral reading, and a thesis. For conditions of admission see note above.

*Three hours*, through the year. M., 3; W. F., 12.

MR. POUSLAND

**119. Contemporary French Literature.** A study of fiction, poetry and drama since about 1890, beginning with Anatole France, Bourget, and Rostand, and taking up representative works by modern authors since. *Representative Contemporary French Lyrics* (Delpit). Cunliffe and De Bacourt's *French Literature During the Last Half Century*, with reference to Lalou, Bédier-Hazard, etc. Reading and discussions; few if any lectures.

*Three hours*, through the year. M., 3; W. F., 12.

Omitted in 1930-31.

MR. CHURCHMAN

## COURSES IN SPANISH

### 1. PRIMARILY FOR UNDERGRADUATES

**11. Elementary Course.** Hills and Ford's *First Spanish Course*. Translation of simple prose. The first purpose of the course is to develop the ability to read, but a liberal use is made of oral and written exercises. Emphasis is divided between South America and Spain.

Not divisible.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10. MR. POUSLAND

**12. Intermediate Course.** Combination of readings from Spanish literature with more advanced study of the language, oral and written. Review of the language in Crawford's *First Book in Spanish*. Reading of representative masterpieces, *e.g.*, *Don Quixote* (selections), one modern novel, one play, short stories. Open to students who have passed course 11, or who have had two years of Spanish in the high school.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 9.

MR. CHURCHMAN

# DEGREES CONFERRED

In the Calendar Year 1930

## BACHELOR OR ARTS

Michael Abelsky (With High Honor)	Aaron Levitz
William Perry Barber	Richard Ralph Mahony
Edward William Brady	William Everett Marchant
Armand Joseph Brissette, Jr.	Arthur Emil Mattson
Thomas Edison Christensen	Edgar August Moberg
Paul Merrick Crowley	Jonathan Frederick Moore
Harry Davis	Frederick Marean Murdock (With Honor)
Robert Ira Dickey (With High Honor)	Charles Lester Peltier
Albert Joseph Dobie	Victor Ellsworth Pitkin
Robert Andrew Dolan	Francis Arnold Read
Michael Aloysius Donahue (With Honor)	Harry Rogers
Chester Gabriel Eliason	Joseph Lambert Roy
Albert Clarence Erickson (With Highest Honor)	Carl Elmer Schonning
Oscar Feinsilver	John Howe Scott (With Honor)
Harry Foxhall	Frank David Slade
Adrian Armand Gaucher	Samuel Sleeper
Kenneth Clarke Harding	Silvanus Hayward Snell
George Higginbottom	Harry David Solomon
Walter Hollis	Thomas Earle Southwick
David Harold Jacobs	Charles Clinton Spaulding
Edwin Niles Johnson (With Honor)	Harry Prouty Stedman
Philip Warren Kenworthy	Frank Paul Stevens
Ivan Iliev Kutukchieff	Sydney Reynolds Ussher
Charles Adrian Larkin	Samuel Milton Whitman
Samuel Levenson	Theodore Alexis Wiel
Robert Levine	William Larkin Williams
	Frank Edward Wilson
	Frederick Winter
	Hildreth Turner Winton
	Everett Job Wordell

## BACHELOR OF EDUCATION

August 7, 1930

Mary Agnes Bingham	Mary Frances Kane
George Sibley Corfield	Alice Elizabeth Kelley
Margaret Helen Dewar	Anna Agnes Kinniery
Joseph Diamond	Margaret Isabelle McAuliffe
Mary Teresa Donnelly	Mary Day McMurray
Catherine Agnes Doyle	Katherine Cecilia Mulcahy
Margaret Veronica Gray	Anna Genevieve Eaves Simmons
Donald S. Griswold	Mary Veronica Sullivan
Elizabeth Herr	Catherine Teresa Traynor
Agnes W. Hines	Edith Viola Grove

## MASTER OF ARTS

Jessie Ashworth	Gerald Meringer Kendall
George Louis Blackwell	Melvin Dow Kennedy
Isadore Chester Bland	Honora Eleanor Kinniery
Lillian Sophia Blomstrom	Lionel Hassell Laing
Thomas Edward Boyle	Evelyn Charlotte Lundgren
Reginald Arthur Briggs	Fred Paul Luvisi
Lucy Elizabeth Chapin	Theresa Frances McQueeny
Katharine Bishop Clarke	Dorothy Mildred Olson
Bernard Francis Duesel	Katharine Allen Powell
Theodore Eugene Dumas	Leonard Raymond Schneider
Victor Raymond Edman	David Sherman
Franklin Carl Erickson	Thelma Lenora Snape
Nathan Goldman	Walter Grant Stewart
Sydney Grace	Frederick Robert Strasburg
Elizabeth Emery Gregory	Raymond Charles Thomas
Freeman Kendrick Hackett	Harry Everett Turbeville
George Henry Haines	Anthony Joseph West
Harry Kennedy Hutter	Rose Zellar

## DOCTOR OF PHILOSOPHY

Wallace Richards Atwood	Louis Wanger Gellerman
Jacob Herbert Burgy	Clarence Henry Graham
Meredith Frederic Burrill	Bert Hudgins
Mason Nelson Crook	Robert Leeper
Floyd Franklin Cunningham	Norman Leslie Munn
Wayne Dennis	Ernest Ralph Perkins



## MASTER OF EDUCATION

(Honorary)

Joseph Stevens Kadesch

## DOCTOR OF SCIENCE

(Honorary)

Arnold Lucius Gesell

## DOCTOR OF LAWS

(Honorary)

William Lowe Bryan

**Ralph Earle**

## SUMMARY

DEGREES IN COURSE	HONORARY DEGREES	
Bachelor of Arts	56	Master of Education 1
Bachelor of Education	20	Doctor of Science 1
Master of Arts	36	Doctor of Laws 2
Doctor of Philosophy	12	

# REGISTER

Names of students are grouped in three lists, I, those who registered in either semester of 1930-31. II, those who attended the 1929 Summer School and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 30, 31, 32 and 33 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; Ec—Economics and sociology; G—geography; H—history and international relations; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterisk (\*) indicates that the student has withdrawn from the University prior to March 1, 1931.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Abelsky, Michael	Ec S		63 Houghton
Ablandi, John Vincent	32	Framingham, Mass.	
Adams, Lambi Nicholas	33		105 Millbury
*Adamski, Francis, Jr.	33	Central Falls, R. I.	87 Florence
Allan, Keith B.	G F	Normal, Illinois	60 Florence
Ambrose, Michael John	31		17 Fox
Anderson, Alton Rudolph	31		214 Holden St.
*Anger, Arthur Allen	34	Cambridge, Mass.	Estabrook Hall
Anish, Alfred William	34		7 Moen St.
Argoff, Irving	31		25 Providence
Arick, Wilfred Rutman	31		109 June
Aronovitz, Edward	33		20 Wabash Ave.
Atwood, Harriet Towle	C g		160 Woodland
*Avery, Charles Warren	34	Ashland, Kas.	Estabrook Hall
Back, Arthur William	33		60 Florence
Backstrom, Arthur Richard	34	Auburn, Mass.	
Barkhouse, Arthur Julius, Jr.	34	Brookline, Mass.	Estabrook Hall
Bartlett, Wallace Cameron	32	Winchendon, Mass.	
Bassinov, Saul	34	Mattapan, Mass.	
Battersby, Kenneth Arthur	32		974 Main
Bauman, Milton	34	Fitchburg, Mass.	
Bean, Myron Arthur	31		13 Hackfield Rd.
Beauchamp, John Philip	Ec s	Winchendon, Mass.	
Beeber, Maxwell Samuel	31		14 Dover
Becker, Florence	Ps S	New York City	908 Main
Beigelman, Herman	33	Roxbury, Mass.	12 Oberlin
Belkin, Solomon	31		36 Granite
*Bell, William Aloysius	31	Leicester, Mass.	
Bennett, Alfred Wardle	33	Auburn, Mass.	
Benson, Gordon Luman	33	West Brookfield, Mass.	
Berkovich, Louis	31	Mattapan, Mass.	16 Tirrell
*Berman, Warren William	32	Haverhill, Mass.	16 Tirrell
Bernstein, Morris	Ps g	Toledo, Ohio	166 Woodland
Biron, Archie Henry	32	Williamstown, Mass.	Estabrook Hall
Bishop, Harold Mason	33	Shrewsbury, Mass.	
Bither, Wallace Frank	33	Sandwich, Mass.	Estabrook Hall
Bland, Isadore Chester	H g	West Hartford, Conn.	16 Tirrell
Bliven, David Percival	33		31 Tallawanda Drive
Bortz, Nelson Markley	Ec S	Collegeville, Pa.	2 Woodbine St.
Botts, Adelbert Kenneth	C S	Minneapolis, Minn.	9 Freeland
Bowes, Malcom Edward	34	Fitchburg, Mass.	
Brierly, William Biggar	34	Millbury, Mass.	
Brightman, Milton	31	Brookline, Mass.	37 Tirrell
Brooker, Maurice	34	Boston, Mass.	Estabrook Hall
Brown, Horace Alvin	31	Norway, Me.	20 Gates St.
Brown, Morris Yale	31	New Haven, Conn.	980 Main
Burke, James Francis	31		19 Camp St.
Butler, Philip Edward	34		21 Preston St.
Bynum, Jefferson C.	C F	Chapel Hill, N. C.	23 Stoneland Rd.
Campbell, Edna Fay	G F	Chicago, Ill.	166 Woodland
Caprio, August	34	Newark, N. J.	Estabrook Hall
Cardinal, Raymond Francis	33		60 May

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Carleton, Thomas McMaster	32	Shrewsbury, Mass.	
Casale, Daniel Joseph	33		74 Fox
Casper, Barry	Ps F	Seattle, Wash.	15 Birch
Catlin, Winton Irving	31	New Britain, Conn.	35 Maywood
Church, Phil Edwards	G S	Berwyn, Ill.	49 Florence
Clark, Hugh Daniel	34	Pawling, N. Y.	Estabrook Hall
Clark, Marshall Gorham	31	Bridgton, Me.	20 Gates
Cohen, Herbert William	33	Roxbury, Mass.	120 Oberlin
Colbert, Maurice James	33	Mechanicville, N. Y.	144 Woodland
Collins, Edward Richard	34		46 Maywood
*Collins, Francis John	Ec g		11 South
Compton, John	33	Dorchester, Mass.	20 Gates
Conant, Alvah James	34		30 Hartshorn Ave.
Corfield, George Sibley	G S	Port Byron, N. Y.	6 Hancock
Cressey, George Babcock	G F	Granville, Ohio	2 Downing
Crosby, George Howard	34		15 Vassar
*Cutler, Gordon Pratt	34	Somerville, Mass.	Estabrook Hall
Cutler, Norman Giles	34	W. Brookfield, Mass.	
de Marco, Joseph, Jr.	31		156 Shrewsbury
DeVries, Harold Carlyle	34	Aurelia, Iowa	Estabrook Hall
*Diamond, Nathan	32	Hudson, N. Y.	980 Main
Dietrich, Sigismond deR.	G F	Budapest, Hungary	166 Woodland
Donabedian, Sarkis Melkon	32		532 Pleasant
*Dowgielewicz, Henry Aloysius	34	Spencer, Mass.	
Downey, Joseph Daniel	34		238 Webster
Downey, William Bertrand	H g	Wellesley, Mass.	87 Florence
Drawbridge, William Jefferson	34	Holden, Mass.	
Duesel, Earl A.	34		65 Stafford
Duffy, Frank King	33		8 Oberlin
Dworin, Hymen F.	34	New Britain, Conn.	Estabrook Hall
Dworkin, Myer Arthur	34		23 Fairbanks
Earley, William Patrick	H g		137 Dorchester
*Easterly, Robert Oliver	34	Gloversville, N. Y.	Estabrook Hall
*Edman, Victor Raymond	H F		144 Wildwood Ave.
*Edstrom, Carl George	34		934 Main
Eidam, Carl Louis	31	Methuen, Mass.	926 Main
*von Einsiedel, Horst Carl	Ec F	Dresden, Germany	166 Woodland
Eisner, Chauncey Aniret	31	Leominster, Mass.	
Erickson, Albert Clarence	Ph S		35 Olga Ave.
Estabrook, Allen Laidlaw	33		7 Cedar
Feinsilver, Oscar	Ch S		57 South
Ferguson, Otis Cowan	34		17 Catalpa
*Fine James	32	Providence, R. I.	16 Tirrell
Fine, Michael Bernard	34	Dorchester, Mass.	
Fine, Robert	33		12 Granite
Fishman, Edith Eunice	Ps S	Hartford, Conn.	1018 Main
Fitzpatrick, Robert Joseph	33		11 Healy Rd.
*Flagg, Maro Palmer	34		128 May
*Foley, Frederick Edward			9 Freeland
Forrest, Edward Lester	34	Stockbridge, Mass.	Estabrook Hall
Foscue, Edwin Jay	G F	Dallas, Texas	166 Woodland
Foster, Edward Clark	31	Haydenville, Mass.	20 Gates
Fox, Louvane Alfred	33	Waterbury, Conn.	4 Norwood
French, George Malcom	33	Stockbridge, Mass.	Estabrook Hall
French, Wellington Armstrong	34	Stockbridge, Mass.	Estabrook Hall
Furtek, Stanley Dwight	33	Chicopee, Mass.	Estabrook Hall
Gadaire, Charles Rice	32	Brookfield, Mass.	20 Gates
Cagne, Raymond Franklin	32	North Andover, Mass.	973 Main
Callagher, Cleon Wallace	34	Uxbridge, Mass.	
Callagher, John Jerome, Jr.	34	Uxbridge, Mass.	
Galvin, Howard William	32		146 Lincoln
Gardner, Irving Arthur	32	Lowell, Mass.	16 Tirrell
Gissen, Max	32	Brattleboro, Vt.	888 Main
Gladding, Royal Henry	32	Providence, R. I.	Estabrook Hall
**Goldberg, Harold David	34		110 Houghton St.
Goldberg, Bernard Israel	32	Salem, Mass.	37 Tirrell
Goldman, Nathan	Ps F		9 Lamar Ave.
*Corin, Elmer Leonard	34	Gardner, Mass.	Estabrook Hall
Graham, Boynton	34	Haverhill, Mass.	Estabrook Hall
Graham, Guilbert Robertson	G g	Zanesville, Ohio	919 Main
Grimmer, Herman Joseph	B s	New Glasgow, N.S., Can.	71 Jaques Ave.
Gronvold, Eunice Constance	G S	Rugby, N. D.	
Grossman, Maurice Benjamin	32	Greenfield, Mass.	448 Chandler
Grudzis, Vincent Paul	34		39 Canton

\*\*Died October 21, 1930

*Should be  
Estabrook not  
Edman*

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Haddad, William	31		17 Wall
Hair, Richard Chalmers	32		85 Downing
Hall, Perry Blackmer	33	Dudley, Mass.	35 Maywood
Halperin, Theodore Harzel	34	E. Boston, Mass.	12 Lamartine
Hamm, Elmer Vaughan	34	Pawtucket, R. I.	Estabrook Hall
Handy, Chester LeRoy	33		835 Main
*Hargrove, Clinton Gorham	32		37 Hudson
Harrison, James	33	Brighton, Mass.	78 Florence St.
Harwood, Ernest Monroe, Jr.	32	New Britain, Conn.	35 Maywood
Hemenway, Everett Merritt	34		143 Vernon
Higginbottom, Arthur Raymond	33	Millbury, Mass.	
Higginbottom, George	Ch g	Millbury, Mass.	
Higginbottom, Russell William	33	Millbury, Mass.	
Hillhouse, Douglas Paton	34	New Haven, Conn.	Estabrook Hall
*Hoar, Walter Ahaesy	34		44 Maywood
Hodge, Walter Henricks	34		21 Suburban Road
Holmes, Stanley Albert	Ch s		3 Ureco Ter.
Holmgren, Axel Verner	32		34 Ames
Holter, Richard Norman	34		23 Brighton Rd.
Horovitz, Edward Harry	33	Roxbury, Mass.	12 Oberlin
*Hotkowski, Edward John	33	Stafford Springs, Conn.	835 Main
Howarth, George Everett	33		26 Arthur
Hudgins, Clarence Virginus	Ps F	Oberlin, Ohio	14 Kingsbury
Ishii, Ryoichi	Ec S	Tokyo, Japan	Estabrook Hall
Jaffe, Sydney	33	Dorchester, Mass.	
Johanson, Yngve Walter	33	Oakdale, Mass.	35 Maywood
Johnson, Charles Francis	34		58 Olga Ave.
Johnston, Norman Francis	32	Maynard, Mass.	Estabrook Hall
Johnston, Philip William	31		1 Hawthorne
Kabaker, Charles Bernard	33		45 Granite
Kaneb, George Dwight	31		602 Grafton
Kaneb, Kenneth Abraham	34		602 Grafton
Kaplan, Daniel	33	Fitchburg, Mass.	
Karaku, Louis Theodore	33		24 Bancroft
Katz, Irving	31	Meriden, Conn.	16 Tirrell
Kaufman, James	32	Corona, N. Y.	4 Christy
Kendall, Gerald Meringer	H F	Leominster, Mass.	908 Main
Kingman, Celia Collins	G g	Providence, R. I.	38 Hollywood
Kinsella, Thomas	Ec S	Newburgh, N. Y.	166 Woodland
Klinglof, Philip Alfred	31		201 Lincoln
*Kneeland, Austin Bernard	33		23 Hollis
Knox, Arthur Randall, Jr.	32	Taunton, Mass.	20 Gates
*Konz, Victor Emil	33	Bronx, N. Y. C.	973 Main
Korpi, Reino	31		18 Catherine
Korpi, Urho	33		18 Catherine
Krutzky, Martin	31	Redwood, N. Y.	1 Greenwood
Laakso, Eino Frederick	H S	Gardner, Mass.	18 Shepard
Laakso, Toivo Matthews	33	Gardner, Mass.	597 Park Ave.
Lappen, Fred Charles	34	Roxbury, Mass.	
Lauf, Paul A.	33		219 Park Ave.
Leach, Morton Glenn	32		3 Irene St.
*Lebeaux, Lincoln	32	Shrewsbury, Mass.	
Lebow, Aaron	34	Roxbury, Mass.	12 Oberlin
Lee, Grace Louise	G s	Newark, N. Y.	4 Downing
Lehtinen, Paul John	34		2 Ashton
Leighton, Herbert Towle	34	Morristown, N. J.	Estabrook Hall
Lemaire, Minnie Ethel	C g		4 Kendrick Ave.
Levine, George	34	Brooklyn, N. Y.	Estabrook Hall
Levine, Robert	H S	Brooklyn, N. Y.	64 Arthur
Liu, En-lan	G S	Shantung, China	166 Woodland
Lukens, Philip Woolman	32	Burlington, N. J.	35 Maywood St.
McCabe, George Edward	33	Arlington, Mass.	Estabrook Hall
McCauley, Byron Frances	33	Dalton, Mass.	973 Main
McCormick, William Patterson	Ec S	New Wilmington, Pa.	4 Hancock
McLaughlin, Theodore Thomas	34		6 Ward
MacDowall, Edward William, Jr.	31		6 Bath
Malkiel, Saul	34	Mattapan, Mass.	
Malmstead, Chester Winfield	32		151 Vernon
Malumphy, Thomas L'Herbette	B s	Housatonic, Mass.	767 Main
Manning, Howard Alvin, Jr.	34		16 Berwick
Marshall, Benjamin Tinkham, Jr.	33		31 May
Means, George Robert	G S	Bloomington, Ill.	166 Woodland
Medin, Robert Wesley	31	Auburn, Mass.	
Meleski, Anthony Paul	32		130 Endicott
Metcalf, John William, Jr.	32	Brockton, Mass.	35 Maywood
Merriman, Elizabeth Snow	G S	Fairport, N. Y.	18 Downing



NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Michaels, Arthur	32	Everett, Mass.	16 Tirrell
Miller, Harry Carl	33	Fitchburg, Mass.	
Milstead, Harley Porter	G g	Upper Montclair, N. J.	
Moore, Jonathan Frederick	H S		25 Bay State Rd.
Moran, John Joseph	32	Clinton, Mass.	14 Oberlin
Morrison, Hugh Mackenzie	H F	Vancouver, B. C.	26 Benefit
Moss, Paul Francis	34		19 Richmond Ave.
Murdock, Frederick Marean	Ch S	West Boylston, Mass.	
Muse, Grace	G g	Johnson City, Tenn.	4 Hancock
Nakauchi, Kenji	H g	Choshi, Japan	9 Hawthorne
Neet, Claude Cassell	Ps S	Glendora, Calif.	166 Woodland
Nelson, Wilfred Albert	34		30 Whipple
*Nicol, Everett	33		33 Millbury
x Nordstrom, Joel	31		6 King
O'Connor, Delia Gertrude	G g	Spencer, Mass.	
O'Connor, John Francis	34		67 Oread
O'Donnell, Mary Alice	H S		315 Salisbury
Ohrn, Roy August	34		18 Mill
Olds, John Bryant	31	New York, N. Y.	35 Maywood
Oswell, Mahlon Mackerrow	31		4 Pelham
O'Toole, Edward John	31		18 Dallas
O'Toole, George Augustine	32		89 Houghton
Paivarinta, Olavi	33	Gardner, Mass.	Estabrook Hall
Pearcy, George Etzel	G S	Hollywood, Calif.	24 Beaver
Pender, John James	33		2 Abington
Phair, James Arthur	32	Limestone, Me.	Shrewsbury, Mas.
Philbin, Richard Joseph	32	North Grafton, Mass.	922 Main
Pierce, Charles Harold	33	Springfield, Mass.	12 Oberlin
Pitkin, Victor Ellsworth	G S	Marshfield, Vt.	35 Maywood
Politsch, Lloyd	33	Gloversville, N. Y.	Estabrook Hall
Pollet, Norman Oscar	Ec s		20 Berwick
Pomerat, Charles Marc	31	W. Springfield, Mass.	766 Main
Popple, Arthur Scoville	31	Newport, R. I.	973 Main
Powell, Katharine Allen	H F	Baltimore, Md.	1 Claremont
Reed, Emerson Charles	33	Addison, Conn.	20 Gates
Reynolds, James Bernard	33		142 Wildwood Ave.
Rice, Theodore Adams	34		8 Silver
Richards, William Rees	34	Smithtown Branch, L. I.	Estabrook Hall
Ricker, Henry Carroll	34		36 King
Riley, Stephen Thomas	31		194 Ingleside Ave.
Roberts, Mary Catherine	G g	Lowville, N. Y.	9 Hawthorne
Rogers, Ernest Edmond	34	West Newton, Mass.	Estabrook Hall
Rosenblatt, Arthur	33	Chelsea, Mass.	Estabrook Hall
Rosoff, Leon	32	Watertown, Mass.	
Ross, Walter Clifford, Jr.	32	Springfield, Mass.	Estabrook Hall
Ross, John William	Ps S	Jersey City, N. J.	Estabrook Hall
Rosvall, Toivo David	34		2 Oakwood Place
Roy, Raymond Serge	33	New Bedford, Mass.	973 Main
Russell, William Franklin	34		147 Coolidge Rd.
Rutter, Emily Tarbell	H S	Omaha, Nebr.	41 Beaver
Salminen, Ilmari Fritiof	33	Hubbardston, Mass.	Estabrook Hall
Salminen, Wilho M.	32	Hubbardston, Mass.	Estabrook Hall
Sandman, Jordan Philip	33		120 Elm
Schulman, Herman	33		41 Somerset
Schweitzer, Leonard J.	33		12 Allendale
Schwieger, Albert J.	Ec F	Milaca, Minn.	43 Grand
Seligson, Isaac	33	New York, N. Y.	4 Loxwood
Shachoy, Gordon Ralph	33	Allston, Mass.	Estabrook Hall
Shanbaum, Samuel	34	Clinton, Mass.	
Shapiro, Louis Edward	31		18 Ormond
Shappy, Roland Francis	34	Sutton, Mass.	
Shaw, Earl Bennett	G F	Monroe, Iowa	14 Oberlin
Shaw, Henry Miller	H s	Middleboro, Mass.	39 Woodland
Shea, Joseph Michael	32		15 Blanche
Sheftel, Milton S.	31		81 Russell
Sherman, Walter Roberts	31	W. Hartford, Conn.	35 Maywood
Simonds, Stuart Howes	31		41 Maywood
Singleton, Francis Joseph	32	New Bedford, Mass.	60 Florence
Slopak, Abraham	32	Colchester, Conn.	980 Main
Slopak, Elias	34	Colchester, Conn.	Estabrook Hall
Smart, Lynwode Norton Lee			37 Oak Ave.
Smith, Fanny Rachel	G g	Chicago, Ill.	166 Woodland
Smith, Hampton	32	Gloucester, Mass.	6 Charlotte
Smith, Harold Knowland	33	Danvers, Mass.	Estabrook Hall
Smith, Nathan Joseph	34	Chelsea, Mass.	Estabrook Hall
Smithline, Joseph	34	New London, Conn.	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Snape, William John	33	Camden, N. J.	35 Maywood
Solomon, Harry David	Ch S		412 Grafton
Somers, William Harold	31	Danbury, Conn.	980 Main
Spence, Robert Adams	33		53 Kenwood Ave.
Stanley, George Elbridge	34	Gardner, Mass.	
Steiman, Solomon Eli	33	Brookline, Mass.	980 Main
Steinhilber, Gustav Walter	33		46 Dorchester
Stevens, James Masefield	33		8 Lawrence
Stewart, Mary Elizabeth	H F	Upper Darby, Pa.	1 Claremont
Stiles, Robert Edward	34	Amherst, Mass.	Estabrook Hall
Strub, George Ramsay	33	Plainfield, N. J.	20 Gates
Stull, Joseph Walsh	34	Leonia, N. J.	Estabrook Hall
Sutherland, Arthur Theodore	Ec S	Reno, Nev.	166 Woodland
Sullivan, Leo Vincent	33		32 Birch
Swett, Elmer Lincoln	31		54 Grafton
Talbot, Russell	34		72 Kenberna Rd.
Taliaferro, Rebecca	G S	Lynchburg, Va.	908 Floyd
Tappan, Paul W.	34		974 Main
Tashjian, Berge	34		1 Ashland
Todd, Clifford Parker	33	Sterling Jct., Mass.	4 Woodbine
Tompkins, Earl Alexander	32	Easthampton, Mass.	Worcester St. Hos.
Tompkins, John Butler	B s	Wilkes-Barre, Pa.	36 Laurel
Tookolan, Mehertad	34		4 Northampton
Tosi Ernest Anthony	33		4 Crisly
Toy, Charles Mallery	31	Chesapeake City, Md.	12 Oberlin
Triedman, Joseph	33	Haverhill, Mass.	Estabrook Hall
Turner, Stanley Glendon	34	Chester, Mass.	Estabrook Hall
Twombly, Elwin Holbrook	31	St. Johnsbury, Vt.	166 Woodland
Van Der Voort, John Leslie	H S	Hamilton, N. Y.	738 Main
Vinal, Ella Lydia	Ec g	North Scituate, Mass.	622 Cambridge
*Visnauskas, Adolph Joseph	34		33 Montague
Walker, Donald Albert	34		Worcester St. Hos.
Walsh, Anna Irene	Ch s	Milton, Mass.	63 Stafford
Walsh, Vincent Martin	32		Estabrook Hall
Watson, Robert I.	32	Orange, N. J.	4 Downing
Weeden, Clarice Janette	H S	Windsor, Vt.	Estabrook Hall
Weigle, Fred Backwith	34	Port Chester, N. Y.	29 May
Wellington, Parker	31		973 Main
Wells, Newton Albert	31	Granby, Conn.	4 Hancock
West, Boardman Adelbert	31	E. Pepperell, Mass.	16 Claremont
West, Frederick Myron	32	Haverhill, Mass.	5 Hockanum Way
Westerholm, Roland John	34		20 Gates
Weymouth, Harold Davis	31	Fisherville, Mass.	20 Gates
Whitehouse, Karl Chism	32	Abington, Conn.	48 Downing
Whitman, Howard Glenn	34		Estabrook Hall
Wiel, Theodore Alexis	H S	Springfield, Mass.	87 Florence
Wiener, Harry Julius	33	Revere, Mass.	Estabrook Hall
Wilder, Frederick Howard, Jr.	34	Waltham, Mass.	2 Woodbine
Willauer, Philip	H S	Schwenksville, Pa.	49 Coral
Wilner, Irving	32		
Wilson, Frank Edward	Ch S	Warren, Mass.	Estabrook Hall
Wilson, Sydney Edward	34	Waterbury, Conn.	71 Canterbury
Wright, Albert Charles	31		
Yonker, Thomas Martin	H g	Princeton, Mass.	55 Granite
Young, Benjamin Carl	34		
Zarrow, Myer X.	34	Millbury, Mass.	

## 1930 SUMMER SCHOOL

Abbott, Carroll M.  
 Amos, Jennie  
 Bartlett, Mrs. Ruth S.  
 Bell, William A.  
 Bergin, John A.  
 Bigelow, Edson P.  
 Bingham, Christina  
 Bingham, Mary A.  
 Blackwelder, Mabel C.  
 Blais, Mildred A.  
 Bloom, Sol S.  
 Boardman, Ethel  
 Boehm, Alice  
 Brill, Edith V.  
 Brisette, Armand J.

Manchester, N. H.  
 Akron, Ohio  
 Fulton, N. Y.  
 Leicester, Mass.  
 Boston, Mass.  
 Shrewsbury, Mass.  
 Nashua, N. H.  
 Nashua, N. H.  
 Witt, Illinois  
 Marlboro, Mass.  
 Worcester  
 Freeport, N. Y.  
 Camden, N. Y.  
 Mooers Forks, N. Y.  
 Worcester

Wang, Flora

Ec. S

2nd Sum - withdrawn  
 before end.

- Britton, Edgar  
 Brown, Myrtle F.  
 Buzzard, Guy A.  
 Bynum, Jefferson C.  
 Call, Elizabeth V.  
 Callahan, Ellen G.  
 Callahan, Winifred C.  
 Campbell, Anna L.  
 Carey, Helen  
 Carlson, Albert S.  
 Casey, Mary M.  
 Cassady, Helen M.  
 Casserly, Jane  
 Catlin, Winton I.  
 Clifford, Mae H.  
 Coburn, Eliza V.  
 Cole, May E.  
 Cole, Vera G.  
 Collins, Anna B.  
 Collins, Carrie  
 Conlon, Nellie E.  
 Cooper, Mary  
 Costello, Florence P.  
 Craffey, Frances E.  
 Critz, Verne W.  
 Davis, James H.  
 Delaney, Mrs. Mary F.  
 Derk, Ferdinand  
 Dewar, Margaret H.  
 Dickie, Allan  
 Diggins, Grace L.  
 Diggins, Helen B.  
 Dominis, Beatrice L.  
 Donovan, Mary T.  
 Downs, Margaret  
 Dowd, Marian  
 Doyle, Catherine A.  
 Driscoll, Helen  
 Dumas, Theodore E.  
 Edman, Victor R.  
 Edwards, J. Ernest  
 Estabrook, Rita C.  
 Farrell, Albert L.  
 Fenton, Henry B.  
 Fitch, Adelaide C.  
 Flanagan, Bertha  
 Foley, Mary E.  
 Fryer, Francis L.  
 Geary, Donald J.  
 Geer, Gordon  
 Gish, Alpha  
 Goldberg, Sarah C.  
 Gordon, Mrs. Jacob  
 Gray, Ada B.  
 Gray, Mrs. Bernice T.  
 Gray, Margaret V.  
 Greene, Mary A.  
 Grounds, F. Oral  
 Haggerty, Harriet  
 Haggerty, Mary C.  
 Hall, Florence E.  
 Hall, Stephen F.  
 Hanlon, Nellie  
 Harding, Edith F.  
 Harney, Marion  
 Hart, Marian K.  
 Hart, Margaret L.  
 Hassett, Marie  
 Hatchett, Jennie  
 Hayden, Mary D.  
 Healey, Maude E.  
 Healy, Gertrude F.  
 Hed, Emma  
 Henderson, Mildred  
 Henebry, Julia A.  
 Herr, Elizabeth  
 Hicks, W. T.  
 Johnson City, Tenn.  
 Bakersfield, Calif.  
 Emporia, Kas.  
 Chapel Hill, N. C.  
 Fort Edward, N. Y.  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Toledo, Ohio  
 Bridgeport, Conn.  
 New Britain, Conn.  
 Gardner, Mass.  
 Wakefield, Mass.  
 Spencer, Mass.  
 New Rochelle, N. Y.  
 Mt. Vernon, N. Y.  
 Worcester  
 Worcester  
 Cleveland, N. Y.  
 Worcester  
 Worcester  
 West Monroe, N. Y.  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Oswego, N. Y.  
 Wheeling, W. Va.  
 Worcester  
 Worcester  
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 Worcester  
 Worcester  
 So. Lancaster, Mass.  
 Worcester  
 Worcester  
 Fitchburg, Mass.  
 Oswego, N. Y.  
 Johnstown, N. Y.  
 Lyme, Conn.  
 Worcester  
 Leominster, Mass.  
 Shrewsbury, Mass.  
 Roanoke, Va.  
 Hartford, Conn.  
 Port Chester, N. Y.  
 Washington, D. C.  
 Plainville, Conn.  
 Worcester  
 Danbury, Conn.  
 St. Clair, Mich.  
 Roslindale, Mass.  
 Roslindale, Mass.  
 Watertown, N. Y.  
 New Britain, Conn.  
 Oswego, N. Y.  
 Union, N. J.  
 Worcester  
 Oswego, N. Y.  
 Oswego, N. Y.  
 Lowell, Mass.  
 Huntsville, Ala.  
 Rosendale, N. Y.  
 Bridgeport, Conn.  
 Worcester  
 Bakersfield, Calif.  
 Worcester  
 Danbury, Conn.  
 Peach Bottom, Pa.  
 Gainesville, Fla.

Hobson, Maude A.  
 Hodgkin, Marian.  
 Holbrook, Mary F.  
 Holland, Lillian  
 Houston, Mrs. Ann J.  
 Howe, Helen A.  
 Howe, Persis F.  
 Hutchinson, Mary C.  
 Isler, Eugenia W.  
 Jaques, Marion L.  
 Johnson, Albertine  
 Johnston, Philip  
 Kair, Mrs. Evelyn R.  
 Kennedy, Irene M.  
 Kennedy, Margaret C.  
 Kenyon, Mildred L.  
 King, Agnes C.  
 King, Helen L.  
 King, William E.  
 Knight, Ruby F.  
 Koenig, Henry A.  
 Langley, Roger F.  
 Lasley, Margaret E.  
 Lee, Anna M.  
 Lee, Grace L.  
 Lee, Margaret F.  
 Leidy, Geneva C.  
 Leonard, Ethel V.  
 Liang, Chi Kai  
 Linscott, Edward L.  
 Lombard, Helen F.  
 Lombard, Mildred  
 Lucas, Charlotte  
 Luce, Edith M.  
 Lynch, Mary V.  
 Lytle, Mrs. Jessie R.  
 MacDowell, Edward W., Jr.  
 Mann, Emily A.  
 Maxwell, Pauline E.  
 Mays, Elizabeth  
 McEvoy, Kathryn M.  
 McGillicuddy, Ellen T.  
 McGillicuddy, Mary V.  
 McCourty, Annie V.  
 McNamara, Anna E.  
 Moore, Merton  
 Moriarty, Marguerite L.  
 Morrill, Eleanor M.  
 Mowry, Mary E.  
 Moyer, Josephine  
 Moynihan, Daniel H.  
 Murphy, Edward S.  
 Muse, Grace  
 Neifert, Herbert A.  
 Nelson, Ethel A.  
 Nelson, Florence A.  
 O'Brien, Florence  
 O'Connor, Mary E.  
 O'Connor, Sabina G.  
 Oswell, Sylvia H.  
 Parker, Jessie L.  
 Phipps, Alice  
 Power, Josephine R.  
 Power, Katherine L.  
 Powers, Bernice A.  
 Preble, Charles S.  
 Quinn, Margaret  
 Quinnam, Bertha C.  
 Quirk, Mary E.  
 Reddig, Etta E.  
 Reynolds, Irving  
 Robbins, Leva V.  
 Roberts, M. Catherine  
 Robins, Martha  
 Rosell, Ruth F.  
 Ross, Sabra L.  
 Russell, Alice A.  
 Russell, William F.  
 Ryan, Mary  
 Youngstown, Ohio  
 Greensboro, N. C.  
 Springfield, Mass.  
 Bradford, Mass.  
 Washington, D. C.  
 Worcester  
 Millbury, Mass.  
 Staten Island, N. Y.  
 Greensboro, N. C.  
 Bath, Me.  
 Alexandria, Va.  
 Worcester  
 Portland, Maine  
 Worcester  
 Worcester  
 Oswego, N. Y.  
 Milton, Mass.  
 Worcester  
 New Bedford, Mass.  
 Belchertown, Mass.  
 Seward, Nebr.  
 Barre, Mass.  
 South Boston, Va.  
 Worcester  
 Newark, N. Y.  
 Worcester  
 New Hanover, Pa.  
 Tarrytown, N. Y.  
 Peking, China  
 Bluehill, Me.  
 Worcester  
 Worcester  
 Hartford, Conn.  
 Warsaw, N. Y.  
 Worcester  
 Oswego, N. Y.  
 Worcester  
 Worcester  
 Augusta, Ga.  
 Monticello, Fla.  
 Worcester  
 Worcester  
 Whitinsville, Mass.  
 Worcester  
 Clinton, Mass.  
 Fair Haven, N. Y.  
 Nashua, N. H.  
 Andover, N. H.  
 Greenfield, Mass.  
 Reading, Pa.  
 Worcester  
 Lowell, Mass.  
 Johnson City, Tenn.  
 Quakake, Pa.  
 Chazy, N. Y.  
 Fitchburg, Mass.  
 Worcester  
 Spencer, Mass.  
 Worcester  
 Worcester  
 Montpelier, Vt.  
 Clockville, N. Y.  
 Worcester  
 Worcester  
 Leominster, Mass.  
 Farmington, Me.  
 East Douglas, Mass.  
 Milton, Mass.  
 Haverhill, Mass.  
 Sinking Spring, Pa.  
 Milford, Conn.  
 Freeport, N. Y.  
 Lowville, N. Y.  
 Fredericksburg, Va.  
 Port Jefferson, Ohio  
 Penn Yan, N. Y.  
 Ellington, Conn.  
 Worcester  
 Fall River, Mass.



Savage, Elizabeth A.  
 Sawyer, Mrs. Mae L.  
 Schneider, Leonard R.  
 Scollin, Anna E.  
 Scott, Martha W.  
 Sellow, Marcy B.  
 Shea, Joseph E.  
 Sherwood, Mae  
 Simmons, Mrs. Anna E.  
 Simon, Louise C.  
 Slade, Frank D.  
 Smith, Cora I.  
 Smith, Winifred  
 Snapp, Jennie  
 Sowden, Ruth V.  
 Stotz, Carl L.  
 Strasburg, Frederick R.  
 Streeter, Mary A. R.  
 Sullivan, Mary V.  
 Sund, Thure A.  
 Swanson, Ethel G.  
 Thomas, Catherine  
 Thomas, Edna L.  
 Toomey, Harry L.  
 Toulson, Margaret H.  
 Traynor, Catherine T.  
 Vail, Anna F.  
 Vinal, M. Emma  
 Virtue, Jessie  
 Vozka, Henry  
 Waites, Sara  
 Waldron, Florence I.  
 Walker, Carol T.  
 Wallace, Grace  
 Wasson, Margaret M.  
 Weaver, William R.  
 Welch, Mrs. Anna H.  
 Wellington, Mildred  
 Wesolowski, John C.  
 Wheeler, Ethel  
 Wheeler, Marguerite  
 Whitney, Dorothy  
 Wilson, Ella M.  
 Winn, Eva G.  
 Wylie, Jeannette

Worcester  
 Baldwinsville, N. Y.  
 Cleveland, Ohio  
 Danbury, Conn.  
 Worcester  
 Stafford Springs, Conn.  
 Worcester  
 Endicott, N. Y.  
 Fitchburg, Mass.  
 Oswego, N. Y.  
 Pearl River, N. Y.  
 Portland, Me.  
 Worcester  
 Endicott, N. Y.  
 Montclair, N. J.  
 Detroit, Mich.  
 Wilbraham, Mass.  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Lynchburg, Va.  
 Cleveland, Ohio  
 Worcester  
 Binghamton, N. Y.  
 Worcester  
 New Bedford, Mass.  
 Wakefield, Mass.  
 Meadville, Pa.  
 Detroit, Mich.  
 Anniston, Ala.  
 Rome, N. Y.  
 Troy, N. Y.  
 Mineola, N. Y.  
 Iliion, N. Y.  
 Trenton, N. J.  
 Simsbury, Conn.  
 Bridgeport, Conn.  
 Worcester  
 Danbury, Conn.  
 New Haven, Conn.  
 Norwich, Conn.  
 Ypsilanti, Mich.  
 Nashua, N. H.  
 Niagara Falls, N. Y.

## EXTENSION STUDENTS 1930-31

Austin, Gertrude E.  
 Babson, Clara A.  
 Back, Arthur W.  
 Bacon, Ruth I.  
 Begley, Jennie V.  
 Beller, Bertha  
 Beller, John D.  
 Berquist, Mildred T.  
 Blute, Brother Alan  
 Bouchard, Napoleon E.  
 Bowen, Doris M.  
 Bowen, Grace L.  
 Bowler, Ruth C.  
 Bowman, Aenid C.  
 Brennan, Joseph F.  
 Brown, A. Jean  
 Brown, Henry M.  
 Bryant, Nellie J.  
 Bullock, Ethel W.  
 Burggraaf, Stanley  
 Butler, Kathryn E.  
 Callahan, Ellen G.  
 Callahan, Winifred C.  
 Campbell, Anna L.  
 Carey, Helen M.  
 Cavanaugh, Teresa  
 Clark, Elizabeth H.

Conlon, Nellie E.  
 Conroy, Anne C.  
 Converse, Ann M.  
 Cook, Catherine C.  
 Costello, Florence P.  
 Craffey, Frances E.  
 Cronin, Helena D.  
 Cronin, Margaret G.  
 Cunningham, Helen M.  
 Degnan, Francis J.  
 Delaney, Mary F.  
 Dewar, Margaret H.  
 Diggins, Grace L.  
 Diggins, Helen B.  
 Dodge, Mary C.  
 Donaldson, Celia T.  
 Donallan, Margaret M.  
 Donnelly, Mary T.  
 Doyle, Margaret M.  
 Drohan, John J.  
 Ducey, Agnes F.  
 Duguid, Sarah J.  
 Dunn, Ellen G.  
 Early, Mary  
 Elfvin, Pauline  
 Estabrook, Rita C.  
 Fitman, Anna G.

Gilgan, Mary A.  
 Ginn, Addie M.  
 Goodspeed, Madge L.  
 Grady, Mary M.  
 Hammond, Cleon C.  
 Harney, Marion  
 Harriman, Helen J.  
 Harrington, Jennie A.  
 Harris, Elizabeth J.  
 Harris, Bessie L.  
 Hastings, Rowland J.  
 Healey, Barbara G.  
 Healey, Gertrude F.  
 Healy, Mary C.  
 Hines, Agnes W.  
 Hodgson, Helen J.  
 Howard, Frances D.  
 Judge, William F.  
 Kane, Josephine V.  
 Kelley, Alice E.  
 Kelly, Mary E.  
 Kennedy, Margaret C.  
 Kilton, Dorothy G.  
 King, Helen L.  
 King, Marguerite F.  
 Kinsley, Edith L.  
 Knowlton, Clover G.

Clark, Rachel M.  
 Coffey, Grace C.  
 Coffey, Mary G.  
 Cole, May E.  
 Cone, Mary M.  
 Lavin, Leonora M.  
 Lee, Alice  
 Lee, Anna M.  
 Lee, Margaret F.  
 Lemoine, Grace L.  
 Lombard, Helen F.  
 Lombard, Mildred A.  
 Long, Alice M.  
 Lotz, W. Albert  
 Lynch, Mary V.  
 Lyseth, Amy C.  
 McAuliffe, Grace E.  
 McAuliffe, Margaret I.  
 McCarthy, Margaret N.  
 McCormack, Frances M. L.  
 McDonald, Mary I.  
 McDonnell, Mary G.  
 McDonnell, Nellie A.  
 McGillicuddy, Mary V.  
 McGourty, Annie V.  
 McGuire, Bernice K.  
 McManus, Elizabeth S.  
 McQuaid, Katharine L.  
 McPartland, Mary E.  
 McQueeny, Dorothy E.  
 McSheehy, Elsie M.  
 Maloney, Catherine M.  
 Matthews, Anna V.  
 Matthews, Mary A.

Fitzgerald, Clara P.  
 Flaherty, Mary M.  
 Fox, Mary M.  
 Gainsman, Edith A.  
 Calvin, Mary R.  
 Maynard, Gertrude  
 Medin, Elin E.  
 Mellen, Alice M.  
 Miller, Eileen M.  
 Moore, Frances C.  
 Moore, Robert L.  
 Moran, Helen G.  
 Mower, Elsie D.  
 Murphy, Annie E.  
 Nagle, Mary E.  
 Nelson, Florence A.  
 O'Connor, Mary C.  
 O'Connor, Mary E.  
 O'Connor, Sabina G.  
 Ohn, I. Marie  
 Ostrom, Abbie C.  
 Parker, Freda M.  
 Parmenter, Emma B.  
 Pousland, Mary  
 Power, Anna M.  
 Power, Josephine R.  
 Power, Katherine L.  
 Powers, Elizabeth M.  
 Quinn, Margaret  
 Rollins, Arthur S.  
 Rollins, Grace D.  
 Salter, Dorothy  
 Sargent, Mary W.  
 Savage, Elizabeth A.

Knox, Frances M.  
 Lane, Alice S.  
 Lane, Richard O.  
 Larkin, Alice B.  
 Larkin, Mary J. M.  
 Sayle, Harriet A.  
 Sayle, Mary E.  
 Scannell, Margaret E.  
 Scheiffley, Claude K.  
 Shakow, Sophie H.  
 Sharkey, Mary  
 Shea, Agnes G.  
 Shea, Joseph E.  
 Sleeper, Ruth P.  
 Smith, Grace K.  
 Spofford, Mary R.  
 Stokes, Brother Matthew  
 Sugden, Lelia  
 Sullivan, Dorothy A.  
 Sullivan, Marie  
 Thompson, Elizabeth G.  
 Tierney, Sarah V.  
 Toomey, Harry L.  
 Vinal, Ella L.  
 Wall, Roy H.  
 Ward, Mary L.  
 Wassell, Albert W.  
 White, Barbara W.  
 White, Ruth M.  
 Whitney, Louise  
 Willard, Ethel L.  
 Witherspoon, Miriam  
 Wynn, Marguerite

## SUMMARY - 1930-31

Undergraduates		254
Freshmen	87	
Sophomores	71	
Juniors	48	
Seniors	48	
Graduate Students		68
Special Students		9
Extension Students ( <del>1st sem.</del> )		<del>153</del> 182
Summer School - 1930		<del>214</del> 218
(Including Field Trips)		
TOTAL		700 <del>698</del>



# CLARK UNIVERSITY

## The Forty-first Annual Commencement

JUNE 8, 1931





# Order of Exercises

Processional: Festival March

*Mendelssohn*

Overture: Stradella

*Flotow*

THE JOSEPH TRUDA ORCHESTRA

Invocation

THE REVEREND DR. MAXWELL SAVAGE

Pastor of the First Unitarian Church

Commencement Address

PROFESSOR KIRTLEY MATHER

Annual Statement of the President

Announcements

The Prentiss Hoyt Prize for Poetry

The Edmund C Sanford Scholarship

Etude Opus 25, No 7

*Chopin*

ARTHUR HIGGINBOTTOM '32

Conferring of Degrees

Benediction

Recessional: Imperial Edward

*Sousa*

The audience will kindly remain  
during the recessional

# CLARK UNIVERSITY

## Final Assembly of the 1931 Summer School

August 6, 8:30 p.m.

### I. The Taming of The Shrew (*shortened*)

#### THE CHARACTERS

Baptista, a rich gentleman of Padua .....	Henry A. Koenig
Lucentio, in love with Bianca .....	Carroll M. Abbott
Petruchio, a suitor to Katharina .....	Howard A. Manning, Jr.
Gremio } suitors to Bianca .....	{ Russell P. Talbot
Hortensio } .....	{ Donald B. Johnson
Biondello, servant to Baptista .....	Paul J. Lehtinen
Tranio, servant to Lucentio .....	Francis J. Singleton
Grumio } servants to Petruchio .....	{ Winton I. Catlin
Curtis } .....	{ Edith Keeler
Katharina, the shrew } daughters to Baptista .....	{ Mary K. O'Connor
Bianca } .....	{ Kathryn McEvoy
A Widow .....	Ruth V. Sowden
A Haberdasher .....	Helen A. Howe

#### SYNOPSIS

SCENE I—In front of Baptista's house.

Episode 1: Katharina must be married first.

Episode 2: Petruchio will marry her.

SCENE II—A Room in Baptista's House.

Episode 3: The wooing.

Episode 4: Waiting for the bridegroom.

Episode 5: The wedding.

SCENE III—Petruchio's country house.

Episode 6: The homecoming.

Episode 7: The taming of the shrew.

SCENE IV—The road to Baptista's.

Episode 8: A new Katharina.

SCENE V—At Baptista's house.

Episode 9: Lucentio's wedding reception. The wager.

### II. Conferring of degrees . . . . . President Atwood

#### Bachelor of Education

Anna Louise Campbell  
Teresa Josephine Cavanaugh  
Nellie Elizabeth Conlon  
Anne Cecilia Conroy  
Florence Patricia Costello  
John Joseph Drohan  
Mary Rachel Galvin  
Marion Harney  
Margaret Christina Kennedy

Grace Louise Lee  
Margaret Frances Lee  
Helen Frances Lombard  
Grace Elizabeth McAuliffe  
Annie Veronica McGourty  
Sabina Gertrude O'Connor  
Josephine Rose Power\*  
Katherine Loretta Power  
Mary Catherine Roberts

\*Degree to be awarded on the completion of a small amount of additional work.

*Work completed Sept. 2, 1931, Diploma delivered.*

#### Master of Arts

Economics and Sociology

Albert Sigfrid Carlson

History and International Relations

John Aloysius Bergin

Geography

Eunice Constance Gronvold

Elizabeth Snow Merriman

Grace Muse



All degrees conferred as printed with the exception of Catlin (H.S.) as indicated. clll 10/31

## Candidates for the Degree of Bachelor of Arts

Michael John Ambrose  
Irving Argoff  
Myron Arthur Bean  
Maxwell Samuel Beeber  
Milton Brightman  
Horace Alvin Brown  
Morris Yale Brown  
James Francis Burke  
\*Winton Irving Catlin\*  
Marshall Gorham Clark  
Joseph de Marco, Jr.  
Carl Louis Eidam  
Edward Clark Foster  
William Haddad  
Philip William Johnston, Jr.  
George Dwight Kaneb  
Irving Katz  
Philip Alfred Klinglof

Martin Krutzky  
Robert Wesley Medin  
John Bryant Olds  
Mahlon Mackerrow Oswell  
Richard Joseph Philbin  
Arthur Scoville Popple  
Milton Samuel Sheftel  
Walter Roberts Sherman  
Stuart Howes Simonds  
William Harold Somers  
Elmer Lincoln Swett  
Charles Mallery Toy  
Parker Wellington  
Albert Newton Wells  
Boardman Adelbert West  
Harold Davis Weymouth  
Albert Charles Wright

\*Degree to be awarded on the completion of a small amount of additional work.

### WITH HONOR

Alton Rudolph Anderson  
Wallace Cameron Bartlett

Chauncey Louis Eisner  
Reino Korpi  
Elwin Holbrook Twombly

### WITH HIGH HONOR

Wilfred Rutman Arick

Stephen Thomas Riley

### WITH HIGHEST HONOR

Louis Edward Shapiro

announcement  
of Election  
of Scholarship Society.  
made by  
Pres.

## Candidates for the Degree of Master of Arts

### Chemistry

Oscar Feinsilver  
George Higginbottom  
Frederick Marean Murdock  
Harry David Solomon  
Frank Edward Wilson

### Economics and Sociology

Michael Abelsky  
Nelson Markley Bortz  
Mattie Lucile Kidder  
Thomas Kinsella

### Geography

Adelbert Kenneth Botts  
George Sibley Corfield  
Guilbert Robertson Graham  
En-Lan Li (Liu)  
Victor Ellsworth Pitkin  
Rebecca Martin Taliaferro

### History and International Relations

Eino Frederick Laakso  
Robert Levine  
Jonathan Frederick Moore  
Hugh Mackenzie Morrison  
Mary Alice O'Donnell  
Emily Tarbell Rutter  
John Leslie Van Der Voort  
Clarice Janette Weeden  
Theodore Alexis Wiel  
Philip Willauer

### Physics

Albert Clarence Erickson  
Lawrence Cutler Mansur

### Psychology

Florence Becker  
Edith Eunice Fishman  
John William Hughes Ross

Moses Bornick, - reqs. completed in Harvard U. S.S.-diploma delivered 9/25/31



# Candidates for Degree of Doctor of Philosophy

## *Geography*

George Babcock Cressey

Edna Fay Campbell

Sigismond de Rüdesheim Dietrich

Edwin Jay Foscue

## *History and International Relations*

Charles Roger Hicks

## THE PRENTISS HOYT PRIZE IN POETRY

Louis Edward Shapiro, '31, for the poem "This is London Calling"

Honorable Mention to Otis C Ferguson, '34, for the poem "O Wise Silence"

## EDMUND C SANFORD SCHOLARSHIP

Ernest Monroe Harwood Jr.

## Annual Collegiate Honors

### SENIORS

#### *First Honors*

Stephen Thomas Riley

Louis Edward Shapiro

#### *Second Honors*

Wilfred Rutman Arick

George Dwight Kaneb

Marshall Gorham Clark

Philip Alfred Klinglof

Chauncey Anicet Eisner

Elwin Holbrook Twombly

### JUNIORS

#### *Second Honors*

Ernest Monroe Harwood Jr.

Axel Verner Holmgren

Abraham Slopak

### SOPHOMORES

#### *Second Honors*

Arthur William Back

Alfred Wardle Bennett

Ilmari Fritiof Salminen

### FRESHMEN

#### *First Honors*

Otis Cowan Ferguson

Boynton Graham

#### *Second Honors*

August Caprio

Vincent Paul Gruzdis

Paul W. Tappan





CLARK UNIVERSITY

WORCESTER, MASSACHUSETTS

THE DEGREE OF  
BACHELOR OF EDUCATION

For further information address  
THE REGISTRAR  
CLARK UNIVERSITY  
WORCESTER, MASSACHUSETTS



# The Bachelor of Education Degree

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course is presupposed and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary credit by attendance at the Summer School or by taking such courses as may be open to them at other times.

*Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.*

Courses are offered during the regular academic year on Saturday mornings and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in there or four years the equivalent of a year of study in residence.

At the meeting of the Board of Trustees held October 26, 1923, formal action was taken authorizing the faculty to receive candidates for the degree of Bachelor of Education under the following regulations:

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:

- a. At least one years teaching experience.
- b. At least 30 semester hours of credit earned in residence at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
- d. Requirements in particular subjects:

- (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course or its equivalent.

- (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course or its equivalent.
- (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
- (4) Ten semester hours of foreign language, which may be taken in whole or in part in the Normal School course.
- (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course or its equivalent.

3. STANDARD OF SCHOLARSHIP: The same standard of scholarship as is required of candidates for the degree of Bachelor of Arts.

4. ADVANCED STANDING:

- a. Credit of 54 semester hours is normally given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours credit may be allowed for home-study or extension courses, the acceptance of any work of this type to be subject to the approval of the Registrar.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

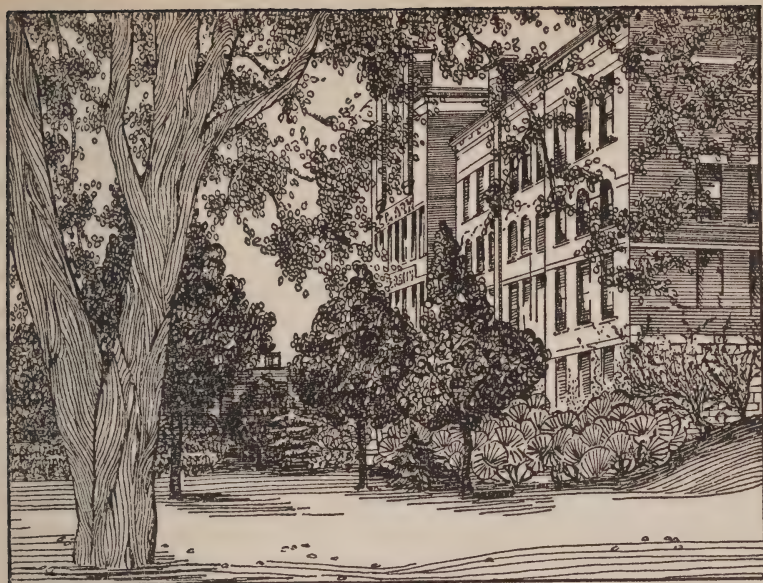
## Special Courses for Teachers

In keeping with its long established policy, Clark University offers during the academic year a series of extension courses designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region.

The courses offered are of two general types; (a) *content courses*, with the needs of the teacher in mind, designed to provide up-to-date, exact and scholarly surveys of subject matter.

(b) *Aims and methods courses*, designed to provide a background for the solution of the practical problems of the classroom.

The courses are strictly of college grade and may be used for credit toward the degree of Bachelor of Education in this University.



# CLARK UNIVERSITY

## *Alumni Fund*

### ALUMNI FUND BOARD

LEON E. FELTON, *Chairman*  
ALLAN B. MILLER, *Treasurer*  
CHAS. E. DISNEY, *Secretary*  
LAWRENCE A. AVERILL  
RAYMOND T. GIFFORD  
ARCHIBALD M. HILLMAN

WORCESTER, MASSACHUSETTS . . MARCH 1931



## OUR AUTHORITY

At the annual meeting of the Clark University Alumni Association in June 1930 the Alumni Council recommended that a committee be appointed to plan and inaugurate an Alumni Fund for Clark. This recommendation was unanimously adopted, and the committee was appointed. Your committee has agreed that the Fund should be started this year.

## THE WHAT AND THE WHY OF THE FUND

Those who have received the benefits of education at a University should be among the first to wish to contribute to its financial support, not only to cancel a moral obligation, but also to insure equal advantages to promising students in the years to come.

No University can succeed without the moral and financial support of loyal alumni. Many feel that the small amounts they can give will be of no practical value. They, therefore, give nothing, and gradually come to feel that they no longer count in the life of the institution. To meet this situation, Alumni Funds have been established in more than eighty colleges in this country.

The idea of the Alumni Fund is very simple. Each year each alumnus is given an opportunity to send to the Fund any amount that his love for the institution may suggest, and his pocketbook will allow. No gift implies any obligation for the future. Individual gifts may be small, but the total receipts are of real importance.

## OTHER ALUMNI FUNDS

The Yale Fund, the first Alumni Fund plan, was started in 1890, with 385 Alumni giving \$11,015.08, an average contribution of \$28.00. The fund now receives annually from non-reunion classes approximately \$150,000.00, and the total annual income is more than a half million dollars.

The Harvard Fund started in 1926, with 3305 Alumni giving \$124,975.00, an average contribution of \$38.00.

The Dartmouth Fund started in 1907, with 553 Alumni giving \$5,147.10, an average contribution of \$9.30. Last year the total receipts were approximately \$135,000.00.

The Radcliffe Fund started in 1929, with 2600 Alumnae giving \$52,000.00, an average contribution of \$20.00.

The Worcester Tech Fund started in 1925, with 866 Alumni giving \$16,210.00, an average contribution of \$18.74. Last year the total receipts were more than \$30,000.00.

## THE CLARK UNIVERSITY ALUMNI FUND

Your committee recommends that, until necessary changes in the Constitution of the Alumni Association can be made, the present Committee be continued as an Alumni Fund Board.

The changes we have outlined are as follows:

1. That the Alumni Council appoint an Alumni Fund Board of six members, to serve for three-year terms.
2. That each local Alumni organization of reasonable size be permitted to name an additional member of the Board.
3. That the Alumni Fund Board shall have full authority to collect and administer the Fund.
4. That Alumni Dues be abolished, so that the appeal for a contribution to the Fund shall, ordinarily, be the only request for money which the Alumni shall receive.
5. That funds not needed for operating expenses of the Association shall be given to the University at such times and for such purposes as the Board shall direct.
6. That the Board shall, each year, to the best of its ability, determine, and notify the Alumni, as to the purposes for which the fund is to be used.

### OBJECTIVES

The immediate objective is an active Alumni Office, with a full-time paid Alumni Secretary. A live office can—

1. Keep the Alumni informed of University activities
2. Co-operate with Alumni Committees, such as
  - a. The Bureau of Appointments Committee
  - b. The Student Loan Fund Committee
3. Collect the Alumni Fund
4. Generally advance Alumni interests

As additional funds are available, we can follow the example of Dartmouth, Worcester Tech, and other institutions, and help to increase faculty salaries. Surely, no field of alumni activity can make a stronger appeal than this of helping to retain at Clark a strong teaching force.

Or we can set aside the balance from year to year until we have a sum large enough to give toward a new building.

Just what we can do, and how soon we can do it, depend entirely upon your response.

## WHAT SHALL YOU GIVE?

The history of other funds shows that from thirty to fifty per cent of the Alumni give during the first year, the percentage rising with each later year.

If one-third of our Alumni give an average of \$20.00, we shall be able to start our Alumni Office next year, and make immediate plans for giving material help to the University. Remember that an annual collection of \$10,000.00 is equal to the interest on \$200,000.00 of endowment.

A gift of one dollar makes you a partner in this Fund. We believe few Alumni will wish to give less than five or ten dollars. A gift of twenty dollars represents only about one per cent interest on the cost to the University of your education over the amount you paid for tuition. If you have prospered, you may wish to give fifty dollars or more to offset smaller gifts from younger and less fortunate Alumni.

During the next three weeks your committee will conduct a personal campaign in Worcester, Boston, and other centers. We already have assurance of two or three one hundred dollar gifts, and several of fifty and twenty dollars.

The Trustees of the University have shown their interest by providing an office, and guaranteeing the expense of collection for two years. President Atwood heartily approves the plan.

About the first of April, you will receive a letter and a pledge card. If you wish, you can help by sending your check now. Mr. Allan B. Miller, Treasurer of the Alumni Association, is Treasurer of the Fund Board, so you know the funds will be carefully administered.

Make checks payable to Clark University Alumni Fund.

Correspondence is welcome. Address letters to

CLARK UNIVERSITY

Alumni Office

MR. CHAS. E. DISNEY, *Secretary*

WORCESTER, MASS.

CLARK UNIVERSITY BULLETIN

*Graduate School of  
Geography*



THE FIRST TEN YEARS

1921-1931



The Bulletin is published in January, February, March, April, May, June, October, November, and December.

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CLARK UNIVERSITY BULLETIN

# *Graduate School of Geography*



THE FIRST TEN YEARS

1921-1931

NUMBER 86

JUNE 1931



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THE GEOGRAPHY WORKROOM

"THE VERY BEST KIND OF EDUCATION IS OBTAINED IN DOING THINGS ONE'S SELF UNDER COMPETENT DIRECTION AND WITH GOOD GUIDANCE."—CHARLES W. ELIOT

THE FOUNDING OF THE SCHOOL OF GEOGRAPHY  
AND THE PRESENT OUTLOOK

*By*

WALLACE W. ATWOOD



## THE FOUNDING OF THE SCHOOL OF GEOGRAPHY AND THE PRESENT OUTLOOK

Prior to the founding of the Clark University Graduate School of Geography in 1921 no graduate school had been established in the United States primarily for training specialists in geography, and promoting research in that field of science. In the eastern part of the country there was not even one well equipped and fully manned undergraduate department of geography.

The World War had awakened an interest in geography not only in the United States but throughout the world. The Departments of Commerce, Agriculture and State in Washington employed professional geographers and sought additional staff members trained in geography. Rapid development in aviation naturally aroused a keen interest in the weather of the free air: the proposal of intercontinental air-routes of travel and transport for airships and airplanes revealed the need of increased efficiency in weather forecasting for the great stretches of the ocean. The rapid rise of manufacturing forced men to seek markets in distant parts of the world. Rapid increase in the demands for foods and raw materials for industries in Europe and eastern United States broadened the outlook of business men. The World War forced upon the citizens of the leading nations a realization that each nation is vitally concerned with the activities and affairs of the whole world. Individuals and nations realize as never before that a policy of isolation is neither feasible nor wise.

During the latter half of the nineteenth century the universities of continental Europe gave special attention to the development of advanced studies and research in geography. The governmental departments in European countries undertook careful mapping of their national domains. While such maps were prepared chiefly for military purposes, other available



geographic data have been, and are, of greater significance in the solution of problems of transportation, communication, power transmission and land utilization.

Increased pressure of population in northwestern Europe necessitated better adjustment of industry and of the various occupations of communities to environment; and because of better programs for development and utilization of space, soil, and all resources, life in continental Europe today reflects a more effective and intelligent adjustment to geographic conditions than life in any other large section of the world. The best adjustments are made intelligently only with knowledge and appreciation of the significance in human affairs, of topography, soils, soil drainage, air drainage, climate, and all natural resources.

Early in the twentieth century the Royal Geographical Society of London fostered a movement for the introduction of geography into the curricula of the British universities, with the result that each one of the leading universities in the British Isles now has a well-established department of geography. The British schools have already produced many able geographers and made many notable contributions to our knowledge of the lands and seas and of the relationship of human activities to environment. The reports of the Challenger Expedition, prepared under the able editorship of Sir John Murray, provide a remarkable storehouse of valuable information. The writings of Mr. and Mrs. Herbertson exemplify the interest that British geographers have taken during the last few decades in the human or social phases of geography.

In the development of the educational system of the United States, geography was early recognized as a fundamental branch in elementary education, but, in the high schools and colleges relatively little work in this field was offered until within the last two decades. Though some of the larger colleges and universities had developed physical geography in connection with the instructional work offered in the departments of geology, almost none had distinct departments of geography.

The subject matters of geography and history have long been considered superior material for the education of young

people, and opportunities had been provided in our institutions of higher learning for all who wished to prepare themselves to teach history or to carry on historical research. In geography, few opportunities had been accorded in this country to those who sought advanced instruction, or direction in field work and research. Many who have taught geography in this country received no training in that subject beyond their elementary-school instruction.

In 1890 one of the members of the present staff in the Clark School of Geography searched in vain through the catalogues of the universities of this country for announcements of advanced courses of study in geography, and found it necessary to go to Europe in order to receive training and inspiration in this field of knowledge.

In 1902, Dr. W. M. Davis of Harvard University prepared a paper on *The Progress of Geography in the Schools*, which was published in the first "Yearbook" of the National Society for the Scientific Study of Education. He gave special emphasis to the organization and disciplinary value of physiography, and pointed out also the need for the development of the study of responses of organic forms to their environment.

He gave more attention, however, to the very great need for an advanced treatment of the subject of geography. He saw then that geography must be more maturely developed or it would be inadequately taught, and would fail to play the important part which it should play in higher education and in national affairs. He argued eloquently and convincingly for the introduction of geography into the curricula of colleges and universities. He emphasized vigorously the practical values that come from the study of geography and still more vigorously the intellectual and cultural values, and the general enrichment of life, that come from the study of other nations or from full appreciation of the landscapes and life revealed by travel.

In the summer of 1921, Clark University opened a six weeks' session of regular college work in which several courses in geography were offered. The first regular academic year of the Graduate School of Geography began in the latter part of September, 1921. In addition to the Director of the School,

who had been appointed the year before, Dr. Ellen Churchill Semple joined the staff as a specialist in Anthropogeography, and Dr. Charles F. Brooks accepted the chair in Meteorology and Climatology. Special arrangements provided that Dr. Curtis F. Marbut of the U. S. Bureau of Soils should be in residence for a period giving lectures on Soil; that Dr. Homer P. Shantz of the U. S. Bureau of Plant Industry should lecture in Plant Geography; and that Dr. Oliver E. Baker of the United States Bureau of Agricultural Economics should lecture part of the year in Agricultural Geography and Land Utilization. Dr. Clarence F. Jones accepted the chair in Economic Geography and joined the staff in 1923. In 1924, Dr. Douglas C. Ridgley accepted the chair in Geography in Education, and in 1926 Dr. W. Elmer Ekblaw took over the work in Agricultural Geography and Land Utilization after Dr. Baker found it impossible to divide his time between his work in Washington and in the University. Mr. Guy H. Burnham became curator of the map collections of the School of Geography in 1923. Since then he has been entrusted with the general supervision of the geography workroom or laboratory and he has become a specialist in Cartography.

On page 25 a full list of those who have served as members of the staff is given, and on pages 97-124 will be found the record of attendance in the School and statistics relative to graduates who have received higher academic degrees.

The courses of instruction which have been offered in the School of Geography are listed on pages 61-64. Though they indicate the phases of geography that have been represented in the instruction offered by the members of the staff, they do not represent all fields of geographic interest. A much larger staff of specialists would be necessary to complete an organization in which adequate attention is given to the geography of all sections of the world and to the many phases of this broad subject.

When the Clark Graduate School of Geography was established, special plans were made to give the members of the staff ample opportunity to carry on research. Training and experience in the field were recognized as essential to the

development of high-grade geographers. The repetition of facts gleaned from the writings of others is a second-hand method and cannot develop a high order of professional geographer. With this aim in mind each member of the staff has been encouraged to take time off, once in two or three years, for research in his chosen field of work. During that time full salary is paid by the University. While in residence assistance is given each member of the staff for the pursuit of research. On pages 26-59 the field work and travel experiences of the various members of the staff and also a full bibliography of their publications are recorded.

The Director of the School has completed field studies and the preparation of a report on the Physiography of the San Juan Region of Southwestern Colorado, and has traveled extensively in Europe and in the Orient during the past ten years. Dr. Ellen Churchill Semple finished her extensive field studies in the Mediterranean region, by four months of travel in 1922, thus enriching her personal experiences preparatory for the work which she has just completed on the Geography of the Mediterranean Region in Its Relation to Ancient History. Dr. Charles F. Brooks has carried out field studies in the Caribbean Sea region and given special attention to the study of the Gulf Stream and ocean temperatures as they are affecting the climates of North America. Dr. Clarence F. Jones has spent two long field seasons in South America. In the first he visited each of the leading countries of that continent and in the second concentrated his studies in Colombia and Venezuela. In his journeys to South America he has made stops for shorter periods of field study in the West Indian Islands. During the coming summer season he will concentrate his research on the Caribbean region. Dr. W. Elmer Ekblaw has traveled widely in Europe under the auspices of the School of Geography; while in attendance at the Second International Soil Congress in Moscow and following the close of that congress he made special studies of the agricultural geography of the European section of Soviet Republics. Dr. Douglas C. Ridgley was absent throughout one academic year while engaged in a study-cruise which went around the world. Although





THE SOUTHEASTERN CORNER OF THE CAMPUS INCLUDING THE LIBRARY AND GEOGRAPHY BUILDINGS

Dr. Curtis F. Marbut gives but part of his time to instructional work, he has been at the University every year since the opening of the School of Geography and is regarded a regular member of the staff. As chief of the field service of the United States Bureau of Soils, he has completed, during the last ten years, extensive field studies within the United States. He has also made excursions for the study of soils to the Amazon River Basin and to European Russia.

The importance of training for field work was so deeply appreciated by the members of the staff that a special field school of geography was established in 1927. All students registered in the school are required to take part in that outdoor work for at least one season. The special statement regarding the field school is found on pages 65-67.

From the first the need for a school publication has been recognized. Thus far the need has been but partially met. A quarterly journal, *ECONOMIC GEOGRAPHY*, was established in 1925. Preference was given to *Economic Geography* because no journal occupied that field among the English speaking people. The only other journal in *Economic Geography* is published in Holland in the Dutch language. Beginning on page 85 a special statement appears relative to the establishment of *ECONOMIC GEOGRAPHY* and the distribution of its subscribers.

Throughout the history of the School, Dr. Charles F. Brooks has acted as editor of the *BULLETIN* of the American Meteorological Society, and he has been secretary of this organization since it was founded in 1919. With the headquarters of the American Meteorological Society at Clark University, the Library has been made the depository for publications of various weather services the world over received by the Society in exchange for its *BULLETIN*. In January of the year 1931, Drs. W. Elmer Ekblaw and Douglas C. Ridgley began the publication of the *HOME GEOGRAPHIC MAGAZINE*, now being carried forward by Dr. Ekblaw.

It is very desirable that provision be made for the publication of a series of monographs in which mature comprehensive studies in the various fields of geography may appear.

The record of the special service rendered by the Summer

School to students interested in the study of geography will be found beginning on page 71. It is clear that during the summer sessions the University has served a large number of teachers of geography from the northeastern part of the country, a considerable number from more distant states, and a few from foreign countries.

The Home Study Department, offering courses in geography, was established because no other institution provided that kind of service. The record of work accomplished in this department is found in the latter part of this report, beginning on page 79.

Special attention is called to the maps in this report on which are recorded the field excursions conducted under the auspices of the School of Geography, the distribution of the graduates of the School and the geographic distribution of contacts made by the various School enterprises.

#### THE OUTLOOK

During the ten years elapsed since the founding of the School, the tendencies or trends evident at the time of the founding have gained strength. The academic fields have called for more experts than ever before, for geography has been added to the curricula of many colleges and universities where previously no work in that field had been offered. In many instances separate departments of geography recently established have flourished beyond expectations. In the past year, Harvard University has announced the establishment of a School of Geography under a separate foundation. This example should strengthen greatly the professional work in geography throughout the country. Dr. A. Hamilton Rice will serve as the first director of the Harvard School of Geography.

The bearing of geography upon the interpretation of history, economics, sociology, and international relations has become more apparent to most educators. Opportunities in government service have increased. The Departments of Commerce and Agriculture, and the educational division of the National Parks Service have added specially trained geographers to their staffs. Investment houses dealing in foreign commodities

or securities have recognized the value of training in Economic Geography, and have inaugurated service in that field. They require that a commodity study, like that of copper, or silver, include its distribution over the world, and, also a graph of its rising or falling production in response to supply and demand.

In land economic surveys, now widely carried on, well trained geographers are absolutely essential, for such surveys involve careful study of the soils of a region, interpretation of the topography and of the nature of all surface formations, knowledge of the geologic structure, mapping of land utilization, compilation of data relative to crops and markets, and records of local weather which will serve in the mapping of the micro-climatology of the region under examination. In addition to the fact finding investigation, a land economic survey may develop much further and provide important recommendations relative to the best uses to be made of selected areas of land.

In the inhabited parts of the world a wise utilization of lands is fundamentally important to the economic existence of human beings. Most of the lands used by man, not occupied by cities and smaller settled communities, by individual homes or routes of transportation, are devoted (1) to forests, (2) crops, (3) pastures, or (4) recreational purposes. Many areas that can be most profitably devoted to silviculture should be set aside permanently for scientific forestry. More than 50 per cent of the people in the world are engaged in some kind of agriculture or in stock raising. They are dependent upon the soils, natural grasses, and favorable climatic conditions for the production of those commodities upon which human life depends. Some lands are well adapted to the production of crops but others should be set aside as permanent pasture lands. Land economic surveying opens a wide opportunity for public service for those trained to do field work in geography. Anyone without such a training is not adequately prepared to undertake this new type of surveying.

A realization of the importance of natural environmental factors is essential in the interpretation of present economic conditions and in planning for new economic development. Thousands of enterprises based on the use of natural resources



have failed because due consideration was not given to the geographic conditions of the region undertaking those enterprises.

Farmers have advanced into semi-arid regions during a period of unusually good rainfall to discover in subsequent years that the rainfall was insufficient for the production of crops, and that irrigation in their particular region was impossible. The trained geographer could have foretold this event. Engineers have constructed reservoir dams where the formations to which the dams were tied did not hold water. A few days in the study of the physiography of that immediate locality would have prevented such a disaster. Many orchards are found in hollows where the dangers of killing frosts are much greater than on the neighboring hillsides. Occasional poor crops also may be charged to the failure on the part of the orchardist to recognize the significance of air drainage in a hilly region.

With the introduction of geography into institutions of higher learning, into the work of many government bureaus, and into financial and commercial enterprises, many new phases of the subject have received special attention. Agricultural geography has been highly developed as a science. Land utilization has a well organized body of scientific data. A new science of soils called *pedology* has been established in which the point of view is entirely different from that current two decades ago. Soils depend in part upon the native rock materials but more upon the climate, drainage conditions, and native vegetation. There are distinct stages in the evolution of soils. Some are young, others mature, and some old. A soil formation is subject to a long series of physical and chemical changes. Geographers cannot afford to neglect the study of the soils in a region under investigation.

Plant geography has long been a well established division in the general field of geographical research. Its economic importance has received more intelligent appreciation within the past few decades. Urban geography offers attractive possibilities both for city planning of parks and boulevards, and for progressive zoning systems. Special urban studies in industrial and commercial geography have multiplied in number and improved in quality.

Throughout the period of notable progress in the economic phases of geography, the well-established interest in the cultural values in the study of geography has steadily grown. Those values may be the greatest of all. Anthropogeography aids the appreciation of history, the interpretation of literature, throws light upon the great trends of human affairs, and in the end leads directly to understanding human problems of today. An analysis of the climates and soils of the European portion of Russia throws important light upon the program of agricultural development in the Soviet Republics.

Knowledge of geography serves as the basis for the interpretation of both former and present day civilizations. The Director of the School will organize and begin work during the coming winter months on a geographical survey of the regions of Guatemala and Yucatan where archæological studies are already in progress. This will be an attempt to assist those who are endeavoring to work out the history of the ancient Mayan civilization. Perhaps no one of the more modern phases of geography deserves greater attention than the well established but too little emphasized cultural value in the study of geography.

The rapid development in the study of geography in the institutions of higher learning and the general increase of interest in other parts of the world, have stimulated a large and ever increasing demand from publishers for magazine articles, textbooks, and books for the general reader that set forth the modern trends in the development of geography.

Dr. Charles F. Brooks has been called upon to assist in the preparation of a five volume *Handbuch der Klimatologie*. For four years Dr. Brooks, research assistants, and graduate students in the climatology courses have collaborated with Professor R. DeC. Ward of Harvard University on the *Climates of North America* for this world project. The preparation of the extensive new tables and of the numerous new climatic maps has been carried on here, with several thousand dollars of research appropriation from Clark University, the Milton Fund of Harvard University, and the American Meteorological Society. It is expected that this publication will be the standard



RELIEF MODEL OF THE SANTIS NOW IN THE GEOGRAPHY WORKROOM. THIS IS THE MASTERPIECE OF ALL THE WONDERFUL  
MODELS OF THE ALPS BUILT BY DR. ALBERT HEIM OF ZÜRICH AND THE ONLY REPRODUCTION OF THIS WORK IN THE AMERICAS.  
THERE IS NO EXAGGERATION IN THE RELIEF



source for twenty years to come. Its chief editor, Dr. W. Köppen, is probably the world's foremost climatologist. The American collaborators have been appointed members of the new International Climatological Commission of the International Meteorological Organization of the world's official weather services. Dr. Brooks will attend the first meeting at Innsbruck in September, 1931. During 1924, Dr. Charles F. Brooks published a volume entitled, *Why the Weather?*

Dr. Clarence F. Jones has prepared and had published two volumes: one deals with the *Commerce of South America* and the other is a broader treatment of the geography of the continent and is entitled *South America*. The manuscript prepared by Dr. Ellen Churchill Semple on *The Geography of the Mediterranean Region* is in the hands of the publisher. A series of textbooks for use in the public schools has appeared under the authorship of the Director of the School and his report on the *Physiography of the San Juan Region* is in course of publication. He has a volume well under way on the *Regional Physiography of North America* which should serve as a college textbook. Drs. W. Elmer Ekblaw and Curtis F. Marbut have a volume in the course of preparation on the *Geography of Soils*. Dr. Douglas C. Ridgley has published during the last ten years one volume on *Geographic Principles: Their Application to the Elementary School*, and another *A Study of Children's Learning about Places*, and a long series of *Work Books* which are used in the teaching of geography.

One of the major projects carried on under the auspices of the School of Geography during the last ten years has been a study of the agricultural regions of the world. The articles which have already appeared in ECONOMIC GEOGRAPHY on these regions and those in course of preparation will later be published in bound volumes. These articles and the plans for their publication are referred to again on page 86.

On the horizon today appears another great opportunity for cooperation. As the world in more and more places approaches the point of saturation in population, man must refine his adjustments to environment. Extravagance and waste that characterize the opening up of new lands can no



longer be tolerated. The time has come when man must take stock of the natural resources of the world. He must determine the population-carrying capacity of each geographic region. He must look forward to the use of greater intelligence in the utilization of the world's resources, if he would provide comforts for the increasing numbers of people comparable with the comforts enjoyed by the people of today.

No good lands with favorable climates remain anywhere in the world for man's appropriation. As less productive lands are brought under cultivation, man must pay for expensive projects in irrigation, or drainage, or fertilization, or heavy cost in transporting crops to market. Some kind of penalty must be paid by those who endeavor to use the less attractive lands of the earth. Three-fourths of the population of the world are crowded together on a very small fraction of the land surface of the earth. This crowding is not due to chance. It is the result of countless efforts of thousands of people, through thousands of years, to discover the lands and climates where they can make a living.

The speeding up of industrial life has promoted a vastly greater consumption of minerals. As industrial enterprises have spread through backward countries, the demand for minerals of basic importance in most manufacturing enterprises has increased. Stock was taken of the mineral resources of the world for the first time during the World War which made an overwhelming demand for minerals. The investigation of the world supply has gone on since the close of the War, and renders it now possible to appraise the world's mineral resources with some approach to accuracy. Clearly some countries are deficient in minerals; clearly no country is supplied with all of the essential minerals for industry in amounts and in combinations satisfactory for the fullest industrial strength of that nation. Certain regions which were important producing districts have passed the peak of production and today possess little importance. They can be almost disregarded while other regions are just coming into commanding positions.

The nations bordering the North Atlantic on the east and on the west are conspicuously the leading nations of the world

in industrial power. They are fortunate in having large and varied supplies of mineral wealth. The citizens of these nations are naturally much interested in the supply of mineral wealth in other competing parts of the world ; for under modern conditions, it is unfortunate but true that industrial power is essential for political and military supremacy. The control of the mineral resources of the world has many international aspects of great significance and the wisest use of those resources presents a challenge to the modern world.

The rapid rise in the electrical industries and in the application of hydroelectrical energy focuses the attention of all upon the water power resources of the world. In the light of this development the subjects of stream flow, precipitation in relation to power development, and forests or reforestation in relation to both, take on new meaning. To these studies geographers increasingly make contributions.

Almost invariably the good timber-producing forests that were located near the centers of progressive populations have been depleted. Man has ruthlessly and most extravagantly destroyed many of the greatest forests of the world. Those that remain are for the most part far distant from the accessible seaboard and from the larger centers of population where the demands for construction timbers and lumber are greatest. Many of the vast forest areas of northern Eurasia and in the northern part of North America are not only far removed from markets, but they yield inferior timber-producing trees. The utilization of tropical forests presents many difficulties and the timber from the tropics plays but a small rôle in the trade of forest products.

We know now that there are but four conspicuously important fishing regions in the world where vast quantities of food-fish can be obtained. Two of those regions are at the east and west margins of the North Atlantic Ocean and the other two at the east and west margins of the North Pacific Ocean. The conservation of the fish in those regions as well as in lesser fishing regions of the world presents another very important problem for solution by the leading nations.

Refinements in human adjustments to natural conditions

in the different geographic regions of this planet should offer possible solutions to many of the vexing and serious economic questions facing the world. New adjustments must be made in each habitat because of new contacts with distant regions and the new places that individual nations are taking in the scheme of world relationships.

Those interested in geography, world economics, or international relations, should pool their interests and cooperate in finding facts and in recommending solutions to many of the problems of interdependence and intersensitiveness which nations are facing. A knowledge of geography, of world economics, and international interdependence should serve to develop an intelligent sympathy between the various people of the world and in the end contribute to friendly relationships between the several nations of this earth. Intelligent sympathy and friendly relationship between the people in the different geographic regions are today essential to human progress.

## MEMBERS OF THE STAFF





## MEMBERS OF THE STAFF

WALLACE W. ATWOOD, Ph.D.

*Professor of Physical and Regional Geography and Director of  
the Graduate School of Geography*

ELLEN C. SEMPLE, LL.D.

*Professor of Anthropogeography*

CHARLES F. BROOKS, Ph.D.

*Professor of Meteorology and Climatology*

DOUGLAS C. RIDGLEY, Ph.D.

*Professor of Geography in Education, Director of Home Study and of  
the Summer School*

CLARENCE F. JONES, Ph.D.

*Professor of Economic Geography*

W. ELMER EKBLAW, Ph.D.

*Professor of Geography, Assistant Editor of ECONOMIC GEOGRAPHY*

CURTIS F. MARBUT, Ph.D.

*Special Lecturer on Soils*

GUY H. BURNHAM, A.M.

*Cartographer*

## FORMER MEMBERS OF THE STAFF AND VISITING PROFESSORS

OLIVER E. BAKER, Ph.D.	1921-27
HOMER L. SHANTZ, Ph.D.	1921-26
HARRY N. WHITFORD, Ph.D.	1921-24
PRESTON E. JAMES, Ph.D.	1921-22
STANISLAUS NOVAKOVSKY, Ph.D.	1921-23
LAWRENCE MARTIN, Ph.D.	1922-23
HENRY W. COWLES, Ph.D.	1924-25
OLOF G. JONASSON, Ph.D.	1925-26
SAMUEL VAN VALKENBURG, Ph.D.	1926-29
A. BRUNO DIETRICH, Ph.D.	1926-27
IRENE J. CURNOW, Ph.D.	1926-27
EDWARD H. SMITH, A.M.	1926-27
GRIFFITH TAYLOR	1929-30
CHARLES B. FAWCETT, Ph.D.	1930-31

## Wallace W. Atwood

UNIVERSITY OF CHICAGO, B.S., 1897; Ph.D., 1903.

INSTRUCTOR, Lewis Institute, Chicago, 1897-99.

INSTRUCTOR, Chicago Institute, 1900-01.

INSTRUCTOR and Assistant Professor of Physiography and General Geology,  
University of Chicago, 1901-10; Associate Professor 1910-13.

PROFESSOR of Physiography, Harvard University, 1913-20.

PROFESSOR of Physical and Regional Geography, Director of the Graduate  
School of Geography, Clark University, 1920-

PRESIDENT of Clark University, 1920-.

GEOLOGIST, United States Geological Survey, 1900-.

CAPTAIN, R.O.T.C., 1914-18.

ADVISORY BOARD, National Parks Service, 1929-.

EXPERT ADVISOR, National Parks Service, 1930-.

American Academy of Arts and Sciences.

American Association for the Advancement of Science.

Geological Society of America.

Sigma Xi.

American Antiquarian Society.

Chicago Academy of Sciences.

Association of American Geographers.

American Geographical Society.

National Geographic Society.

Sierra Club.

Save-the-Redwoods League.

Geological Society of Boston.

American Forestry Association.

National Council of Geography Teachers. (Past President.)

American Anthropological Society.

FOREIGN MEMBER, Swedish Anthropological and Geographical Society.

HONORARY SENATOR, University of Breslau.

PRESIDENT, National Parks Association.

DELEGATE from United States to Third Pan-Pacific Science Congress, Tokyo,  
1926.

DELEGATE from United States to International Geographical Congress,  
Cambridge, England, 1928.

EDITOR and FOUNDER, *Economic Geography*.

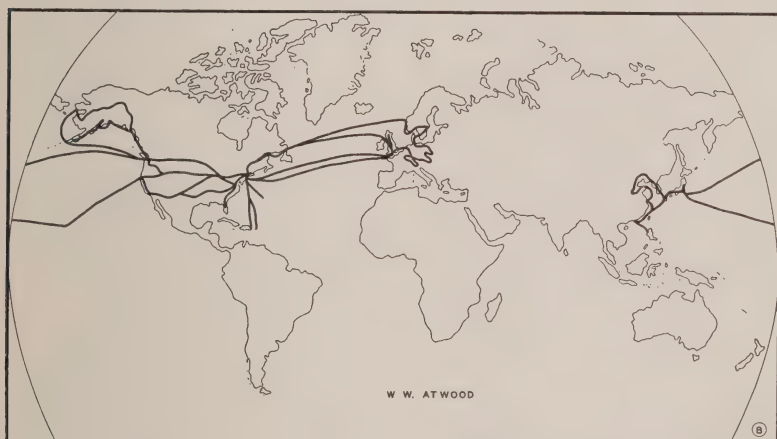
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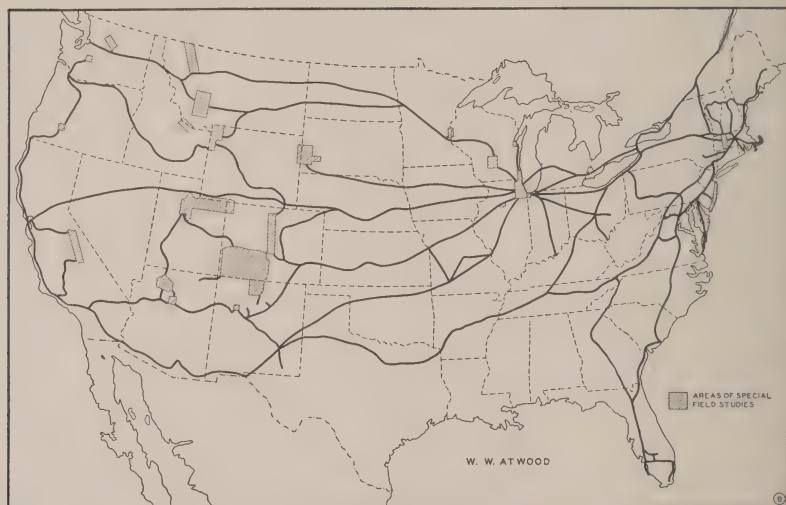


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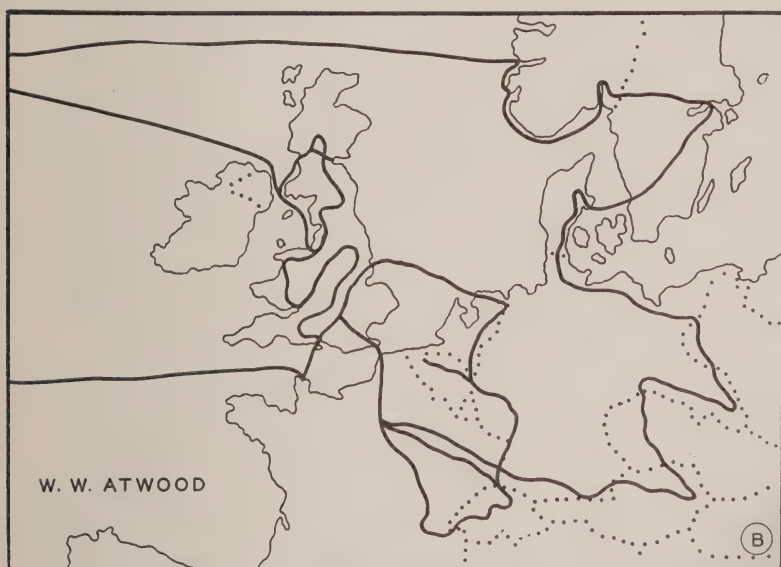
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## *Ellen Churchill Semple*

VASSAR COLLEGE, A.B., 1882; A.M., 1891.

UNIVERSITY OF LEIPZIG, 1891-92, 1895.

UNIVERSITY OF KENTUCKY, LL.D., 1923.

LECTURED biennially at University of Chicago, 1906-23.

LECTURED before the Royal Geographical Society, London, England, November, 1912.

LECTURED before the Royal Scottish Geographical Society in Edinburgh, Glasgow, Dundee, and Aberdeen, November and December, 1912.

LECTURED at School of Geography, Oxford University, England, summer terms, 1912 and 1914.

LECTURED at Wellesley College, 1914-15.

University of Colorado, summer, 1916.

Columbia University, summer 1918.

LECTURED one semester at University of California, at Los Angeles, 1925.

SPECIAL COURSE OF LECTURES at Vassar College and University of Michigan.

PROFESSOR OF ANTHROPOGEOGRAPHY, Clark University, 1921-.

LECTURED before classes of officers at Camp Zachary Taylor on the Military Geography of the Italian front, autumn 1917.

WORKED FOR THE "Inquiry" in New York City, December, 1917-December, 1918.

SPECIAL GEOGRAPHER for the Mediterranean Region and Mesopotamia in the "Bureau of Inquiry for the Peace Terms Commission."

Association of American Geographers. (President, 1921).

Geographical Society of Philadelphia.

American Forestry Association.

American Geographical Society.

RECEIVED the Cullom Medal of the American Geographical Society, New York, March 24, 1914 in recognition of services in the field of Anthropogeography. First woman to receive the medal. The inscription on medal reads: "For her distinguished contributions to the science of Anthropogeography."

REPRESENTS Kentucky on the Regional Committee for "The George Washington Memorial Atlas."

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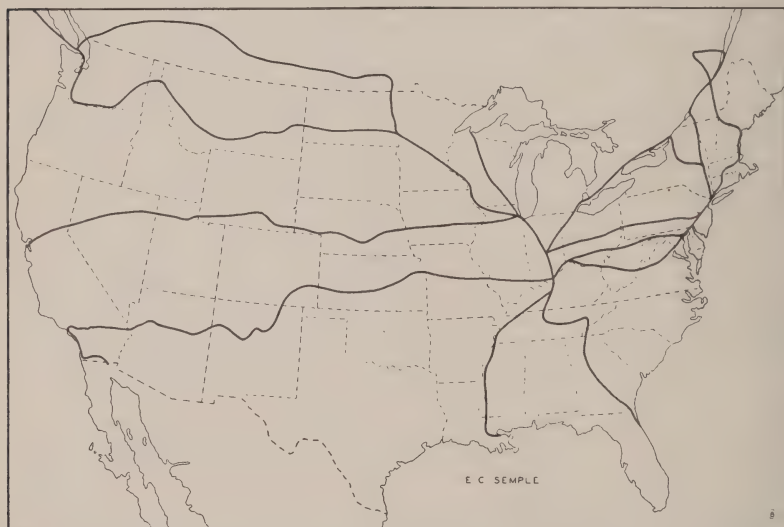
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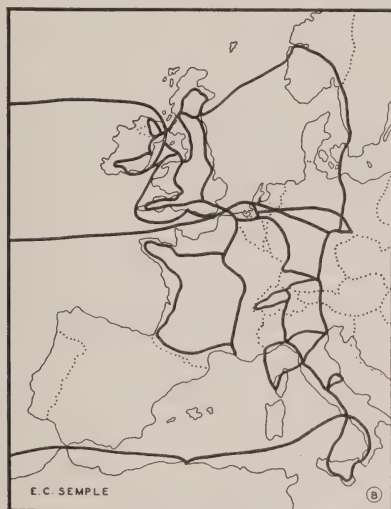
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ELLEN CHURCHILL SEMPLE'S ROUTES  
OF TRAVEL IN WESTERN EUROPE

BARRIER BOUNDARY OF THE MEDITERRANEAN BASIN AND ITS NORTHERN BREACHES AS FACTORS IN HISTORY, *Annals of the Assoc. of Amer. Geog.*, 1915, 5: 27-59;

PIRATE COASTS OF THE MEDITERRANEAN SEA, *Geog. Rev.*, 1916, 2: 134-151;

CLIMATIC AND GEOGRAPHIC INFLUENCES ON ANCIENT MEDITERRANEAN FORESTS AND THE LUMBER TRADE, *Annals of the Assoc. of Amer. Geog.*, 1919, 9: 13-40;

ANCIENT PIEDMONT ROUTE OF NORTHERN MESOPOTAMIA, *Geog. Rev.*, 1919, 8: 153-179;

GEOGRAPHIC FACTORS IN THE ANCIENT MEDITERRANEAN GRAIN TRADE, *Annals of the Assoc. of Amer. Geog.*, 1921, 11: 47-74;

THE INFLUENCE OF GEOGRAPHIC CONDITIONS UPON ANCIENT MEDITERRANEAN STOCK-RAISING, *Annals of the Assoc. of Amer. Geog.*, 1922, 12: 3-38;

- CLIMATIC INFLUENCES IN SOME ANCIENT MEDITERRANEAN RELIGIONS,  
Scottish Geog. Mag., 1925, 41: 214-221, 257-266;
- TEMPLED PROMONTORIES OF THE ANCIENT MEDITERRANEAN, Geog. Rev.  
1927, 17: 353-386;
- ANCIENT MEDITERRANEAN AGRICULTURE, Agricultural History, 1928, 2:  
61-98; 129-156;
- IRRIGATION AND RECLAMATION IN THE ANCIENT MEDITERRANEAN REGION,  
Annals of the Assoc. of Amer. Geog., 1929, 19: 111-148;
- ANCIENT MEDITERRANEAN PLEASURE GARDENS, Geog. Rev., 1929, 19:  
420-443;
- ALZIRA AH FI BULDAN AL-BAHR AL-MUTAWASSIT QUADIMAN. (Agriculture  
in the Ancient Lands of the Mediterranean Countires.) Published in two  
parts in the official magazine of the American University, Beyrout, Syria,  
Al-Kulliyyah, 1930, 16: 107-112;
- PROMONTORY TOWNS OF THE MEDITERRANEAN, Home Geographic Monthly,  
1931, 1: 30-35;
- GEOGRAPHY OF THE MEDITERRANEAN REGION, New York, Henry Holt, 1931  
(in press), 800 pp. illustrated by 13 special maps;



## *Charles Franklin Brooks*

HARVARD UNIVERSITY, A.B., 1911 (as of 1912); A.M., 1912; Ph.D., 1914.

RESEARCH ASSISTANT, Blue Hill Observatory, 1912-13.

ASSISTANT in Meteorology and Physical Geography, Harvard University, 1913-14.

ASSISTANT in Physical Geography, Radcliffe College, 1914.

INSTRUCTOR in Geography, Yale University, 1915-18.

ASSOCIATE PROFESSOR, Meteorology and Climatology, Clark University, 1921-26; Professor 1926-

ASSISTANT in Farm Management, United States Department of Agriculture, 1914-15, 1917-18; Collaborator, 1915-16.

INSTRUCTOR in Meteorology, United States Signal Service, 1918.

METEOROLOGIST, United States Weather Bureau, 1918-21.

Phi Beta Kappa.

American Meteorological Society (Secretary 1919-).

Royal Meteorological Society.

Hungarian Meteorological Society.

Sonnblick-Verein.

Association of American Geographers (Vice President, 1920).

American Geographical Society.

National Geographic Society.

National Council of Geography Teachers.

American Geophysical Union.

American Association for the Advancement of Science.

Washington Academy of Sciences.

Worcester Natural History Society.

National Research Council committees or sub-committees as follows:

Division of Geology and Geography: Committee on Submarine Configuration and Oceanic Circulation.

Division of Physical Sciences: Committee on the Physics of the Earth; Sub-committee on Oceanography.

Science Advisory Committee to the Chicago Century of Progress, 1933: Sub-Committee on Geology; Sub-committee on Geography.

Pacific Science Association; International Committee on the Oceanography of the Pacific, Sub-committee for the United States on the Physical and Chemical Oceanography of the Pacific Ocean.

2nd Pan American Scientific Congress, Washington, December, 27, 1915-January 8, 1916.

International Geographical Congress in Paris, September, 1931.  
International Climatological Commission.

EDITOR, Bulletin of the American Meteorological Society, 1920-25, May, 1927-

ASSOCIATE EDITOR, *Monthly Weather Review*, November, 1918-June, 1919,  
Editor July, 1919-June, 1921.

## PUBLICATIONS

NOTE: Special abbreviations will be used as follows: BAMS, Bull. Amer. Meteorological Soc.; MWR, Mo. Weather Rev.; GR, Geog. Rev.

### CLIMATOLOGY OF NORTH AMERICA

SNOWFALL OF THE UNITED STATES, Quarterly Jour. of the Royal Met. Soc., 1913, 39: 81-86;

ICE STORMS OF NEW ENGLAND, Ann. of the Astron. Obser., Harvard University, 1914, 73: 77-84;

DISTRIBUTION OF SNOWFALL IN CYCLONES OF THE EASTERN UNITED STATES, MWR, 1914, 42: 318-330;

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MAPS, AVERAGE DATES OF FIRST KILLING FROST IN SPRING, AVERAGE DATES OF FIRST KILLING FROST IN FALL, AVERAGE NUMBER OF DAYS WITHOUT KILLING FROST, (Each 16 by 24 in.), co-author with W. G. Reed and F. J. Marschner. In Atlas of Amer. Agric., Pt. II, Climate, Sec. I, Frost and the growing season, U. S. Dept. of Agric., Office of Farm Mgt., Washington, D. C., 1918;

NEW ENGLAND SNOWFALL, GR, 1917, 3: 222-240. Also in amplified form in MWR, 1917, 45: 271-285;

WINDS AND WEATHER OF CENTRAL GREENLAND: METEOROLOGICAL RESULTS OF THE SWISS GREENLAND EXPEDITION (monograph by de Quervain and others), MWR, 1923, 51: 256-260;

THE RAINFALL OF NEW ENGLAND, co-author with Weber and Richards, Jour. New Eng. Water Works Assoc., 1930, 44: 1-118. (Largely reprinted from vols. 42 and 43 where the discussions, maps, and tables had appeared serially.)

SOIL TEMPERATURES OF THE UNITED STATES, co-author with Edith M. Fitton, MWR, 1931, 59: 6-16.

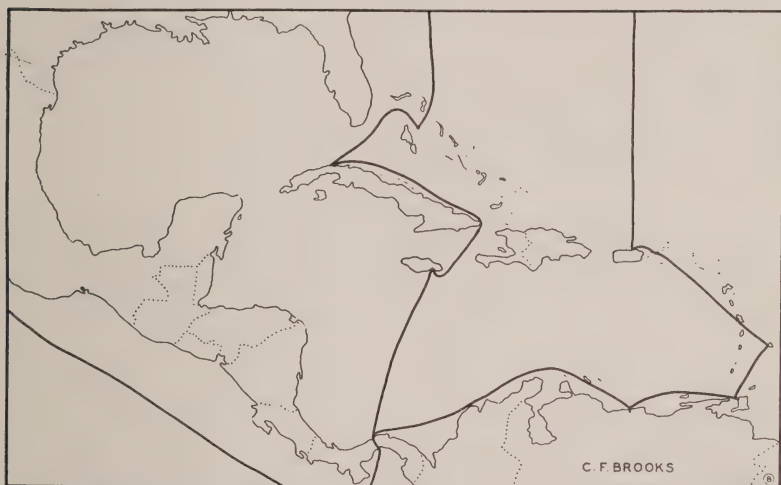
CLIMATOLOGY OF NORTH AMERICA, Part of Koeppen-Geiger Handbuch der Klimatologie, co-author with R. DeC. Ward, A. J. Connor, Edith M. Fitton, and John L. Page, in 5 vols. 1930-1933.  
(Climate of Alaska, United States, West Indies, now in hands of the

editors; Mexico and Canada to follow), Cf. "A new handbook of the world's climates" by R. DeC. Ward. BAMS, 1928, 9: 94-97.

10 or more discussions, and notes GR, MWR, BAMS, 1920-1930.

#### WEATHER. Local Observations

THE "OLD-FASHIONED" WINTER OF 1917-1918, GR, 1918, 5: 405-414; also (shorter) Sci., 1918, N. S. 47, 565-566, and additional notes with art. by P. C. Day, MWR, 1918, 46: 572-575;



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THE WEATHER-MAP STORY OF THE FLOODING RAINSTORM OF NEW ENGLAND AND ADJOINING REGIONS, NOVEMBER 3-4, 1927, co-author with J. Henry Weber, Jour. of New Eng., Water Works Assoc., 1928, 42: 91-103, Repr. 1930, 44: 106-118, and in Bull. 308 of the Amer. Railway Engineering Assoc., Jan., 1929;

THE FLOODING RAINS OF APRIL 1927, IN RELATION TO THE WEATHER MAP SITUATIONS. Contribution to a discussion on Mississippi Flood Control. Co-author with N. H. Bangs, Proc. Amer. Soc. Civ. Engrs., 1928, 54: 1260-1265, Repr. in Transac. Amer. Soc. Civ. Engrs., 1929, 93: 894-898;

About 35 minor original papers on weather or local observations, some of them very brief.

50 or more discussions or notes.

Sci., GR, MWR, and BAMS, 1913 to date. (The topics include ice storms, local temperature, effects of lake ice, snow storms, excessive snowfall, local cold, ground surface temperatures, Atlantic storms, hurricanes, tornadoes, cloudbursts, other severe storms, cold waves, sea breezes, foehns, solar eclipse weather, mirages.)

## AURORA BOREALIS

THE AURORA OF MARCH 7-8, 1918, co-author with Herbert Lyman, MWR, 1919, 47: 402-412;

AURORA OF MARCH 22-25, 1920, AND ASSOCIATED DISPLAYS, co-author with Herbert Lyman, MWR, 1920, 48: 379-392;

10 minor papers on auroras, Pop. Astronomy (1909), and Sci., BAMS, and MWR, 1919-1930.

## CLOUDS

TYPES OF MAMMATO-CUMULUS CLOUDS, MWR, 1919, 47: 398-400;

CLOUD CROSS-SECTION OF A WINTER CYCLONE, MWR, 1920, 48: 26-28;

CLOUD NOMENCLATURE, MWR, 1920, 48: 513-519;

CORONAS AND IRIDESCENT CLOUDS, MWR, 1925, 53: 59-58;

15 minor papers:

Pop. Astronomy, 1909, Meteorological Mag. (London), 1921, Greggs' book, Aeronautical Meteorology, 1925, and MWR and BAMS, 1917-1929; (The topics include: the nature of clouds, local forecasting from clouds, scarf clouds, cumulus, cirrus, halos, coronas, parselenae, iridescence.)

## THUNDERSTORMS

THE LOCAL, OR HEAT, THUNDERSTORM, MWR, 1922, 50: 281-284;

THUNDERSTORMS IN OHIO DURING 1917, co-author with W. H. Alexander and G. H. Burnham, MWR, 1924, 52: 343-348;

THUNDERSTORM TOPKNOTS, MWR, 1930, 58: 331.

## WORLD WEATHER AND SEASONAL FORECASTING. OCEAN TEMPERATURES

WORLD-WIDE CHANGES OF TEMPERATURE, GR, 1916, 2: 249-255, Repr. in Sci. Amer. Suppl., 31, 1917, 83: 194-195, Translated into Japanese and repr. in Jour. of the Tokio Geog. Soc., in 1917;

THE POSSIBILITIES OF LONG-RANGE SEASONAL FORECASTS BASED ON OCEAN TEMPERATURES, The Semicentenary celebration of the founding of the University of California, 1868-1918, 13 pp.;

OCEAN TEMPERATURES IN LONG-RANGE FORECASTING, MWR, 1918, 40: 510-512;

SEQUENCE OF WINTERS IN THE NORTHEASTERN UNITED STATES, MWR, 1921, 49: 71-74;

SCIENTIFIC LONG-RANGE WEATHER FORECASTING, Proc. Nat. Tech. Sec., Pacific Coast Geog. Sec., Nat. Electric Light Assoc., 1921;

- OBSERVING WATER-SURFACE TEMPERATURES AT SEA, MWR, 1926, 54: 241-254;
- THE COMING WINTER IN THE NORTHEASTERN UNITED STATES, BAMS, 1922, 3: 151-152;
- THE EXTRAORDINARY METEOROLOGICAL SITUATION IN THE NORTH ATLANTIC REGION, BAMS, 1923, 4: 49-50;
- PAST, PRESENT, AND COMING (?) WEATHER IN THE NORTH ATLANTIC REGION, BAMS, 1923, 4: 148-150;
- AN OUTLINE OF THE STUDY OF WORLD WEATHER AND LONG-RANGE WEATHER FORECASTING, BAMS, 1927, 8: 31-32;
- PERFORMANCE IN LONG-RANGE WEATHER FORECASTING, MWR, 1927, 55: 390-395;
- THE PROBLEM OF SEASONAL WEATHER FORECASTING, Professional Engineer, 1927, 12: 9-12;
- THE COMING WINTER, BAMS, 1929, 10: 210-213;
- Groissmayr's RELATIONS BETWEEN SUMMERS IN INDIA AND WINTERS IN CANADA, MWR, 1929, 57: 454-455, Discussion and application;
- FORECASTING MEAN WINTER TEMPERATURES FOR THE NORTH AMERICAN INTERIOR, MWR, 1930, 58: 117;
- FORMULAS FORESHADOW MODERATE WINTER ON CANADIAN PRAIRIES, co-author with Earl B. Shaw, BAMS, 1931, 12: 22-23, Amplification of note in BAMS, Dec., 1930;
- AN EARLY SPRING SEEMS LIKELY, BAMS, 1931, 11: 47-48;
- Reliability of different methods of taking sea-surface temperatures. Problems related to surface-water temperature, in Symposium on inter-relations between the sea and the atmosphere, and the effect of these relations on weather and climate; at joint meeting of the sections of Meteorology and Oceanography, Amer. Geophysical Union, Jour. Washington Acad. of Sci., 1928, 18: 525-545;
- METEOROLOGICAL PROGRAM OF THE SEVENTH CRUISE OF THE *Carnegie*, 1928-1931, MWR, 1929, 57: 194-196;
- GULF STREAM STUDIES: GENERAL METEOROLOGICAL PROJECT, MWR, 1930, 58: 103-106. (Also many small notes in BAMS, 1928-1930; feature articles in N. Y. Herald-Tribune, Boston Post, Sci. Service);
- GULF STREAM DAILY THERMOGRAMS ACROSS THE STRAITS OF FLORIDA, MWR, 1930, 58: 148-154. (Also several shorter articles, and notes in BAMS and Sci. News Letter);
- WEEKLY SUCCESSION OF GULF STREAM TEMPERATURES IN THE STRAITS OF FLORIDA, co-author with Edith M. Fitton, MWR, 1930, 58: 273-280, BAMS, 1930, 11: 161-162, and weekly temperatures published serially in BAMS, 1928, and 1929;



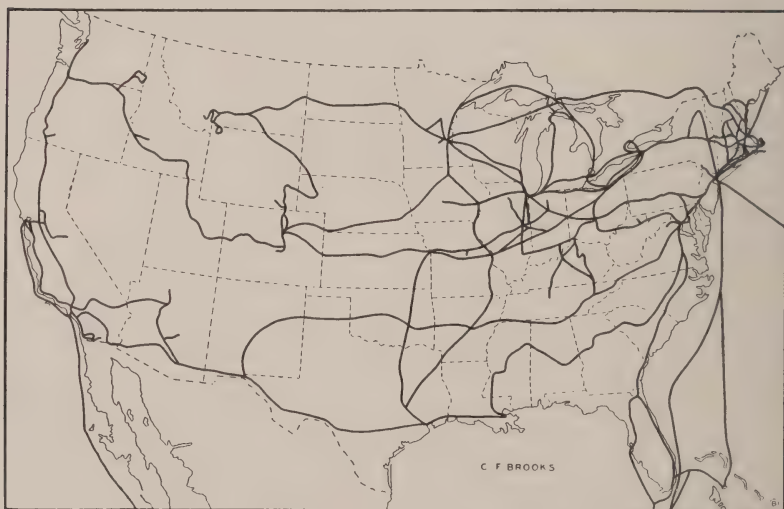
SURFACE TEMPERATURE, DENSITY, AND SALINITY PROFILES ACROSS THE STRAITS OF FLORIDA, Transactions of the American Geophysical Union, eleventh annual meeting, May 1 and 2, 1930, 284-292.

Published by the Nat. Res. Coun., Washington, D. C., June, 1930;

OCEANOGRAPHY AND METEOROLOGY, National Research Council, Division of Physical Sciences, Committee on Physics of the Earth, sub-committee on Oceanography, 20 pages.

Chapter of a book on OCEANOGRAPHY to be published in 1931;

About 10 other papers in this general field, 35 discussions and notes, GR, MWR, and BAMS, 1918-1931. (The topics include: Seasonal weather forecasting and ocean temperatures, Grossmayr's long-range forecasting formulas and correlations, Gulf-Stream variations and rainfall, ocean temperatures and droughts, centers of action, observations of the Ice Patrol service.)



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## AERONAUTICAL METEOROLOGY

EFFECT OF WINDS AND OTHER WEATHER CONDITIONS ON THE FLIGHT OF AIRPLANES, with others, MWR, 1919, 47: 523-532, Reprinted in S. C. I. Amer. Mo., 1920, 1: 126-130;

METEOROLOGY FOR AVIATORS, U. S. Air Service Flying School, Payne Field, Miss., Zooms. Vol. 1, nos. 5-7. Sept. 18, 1918; Sept. 25, 1918; Oct. 2, 1918;

3 other short papers in this field, 20 discussions, notes, Physical Review 1919, GR, MWR, and BAMS, 1919-1930. (The topics include: Weather in transatlantic flights, lightning, meteorological service for aviators.)

## AGRICULTURAL METEOROLOGY

A GRAPHIC SUMMARY OF SEASONAL WORK ON FARM CROPS, co-author with O. E. Baker and R. G. Hainsworth, Yearbook of the U. S. Dept. of Agric., 1917, 537-589; reprinted as Yearbook separate 758, 1918, and again as "Seedtime and Harvest," Dept. Circular 183, March, 1922;

RELATION OF CLIMATE TO THE UTILIZATION OF LAND; INTENSIVE LOCAL STUDIES, Project III, in a report on Scope and Method of Research in Agricultural Land Utilization, edited by J. D. Black; in press, 1931;

10 other brief papers and a few notes, MWR, GR, BAMS, and elsewhere, (The topics include: Influence of weather on crop yields, harvest and sowing dates, critical periods, agricultural climatology of Australia).

## PHYSIOLOGICAL METEOROLOGY

PAPERS ON THE RELATIONS OF THE ATMOSPHERE TO HUMAN COMFORT, co-author with E. O. Donnelly, G. F. Howe, E. S. Nichols, and J. E. Switzer, MWR, 1925, 53: 423-437,  
Introductory note. C. F. B., 423,

"The Cooling of Man under Various Weather Conditions," C. F. B., 423-424;

A few notes in BAMS, 1928-29;

## OTHER APPLIED METEOROLOGY

LOCAL CLIMATES OF WORCESTER, MASS., AS A FACTOR IN CITY ZONING, BAMS, 1923, 4: 83-86;

8 brief papers.

12 discussions, notes.

Jour. Amer. Inst. Arch. 1921, BAMS and MWR, 1920-1929. (The topics include: The consulting meteorologist, professional "rain makers," artificial lakes for improving rainfall, rain insurance, fire weather conferences, insulation of buildings from heat and cold, air conditioning, city air, industrial climatology, snow removal, snow surveys, flood damage.)

## INSTRUCTION IN METEOROLOGY

THE DEFLECTIVE EFFECT OF THE EARTH'S ROTATION, School Sci. and Math., 1917, 17: 517-521;

COLLEGIATE INSTRUCTION IN METEOROLOGY, MWR, 1918, 46: 554-557. (Reprinted in booklet distributed by U. S. Weather Bureau among collegiate teachers in the United States.);

THE PASSING WEATHER, CLIMATOLOGY AND CLIMATES OF THE WORLD, METEOROLOGY AND CLIMATOLOGY, (Mimeographed) Home Study courses, Clark Univ., 36 lessons each, 1924, 1926, (later, split up and revised by C. E. Koeppe);

METEOROLOGY AND CLIMATOLOGY, about 60 articles in "The Book of Rural Life," Bellows-Reeve Co., Chicago, 1927. 10 vols. (several of these articles revised in 1930 for corrected plate ed.);

10 or more brief articles, notes, in MWR and BAMS, 1918-1929:

(The topics include: Subjects for research in meteorology, general classification of meteorological literature, collegiate instruction in meteorology, climatology at Clark University, summer courses, balloons for "laboratory" instruction.

## POPULARIZATION OF METEOROLOGY

NOTES ON METEOROLOGY AND CLIMATOLOGY, 26 groups of notes in Sci., Aug. 29, 1913 to May 14, 1920;

THE PROGRESS OF METEOROLOGY AND CLIMATOLOGY IN THE UNITED STATES, American Year Book, 1918, 630-632; 1919, 623-626.

ORGANIZATION OF THE AMERICAN METEOROLOGICAL SOCIETY, Sci., Aug. 22, 1919, N. S. 50, 180.

MEETINGS OF THE AMERICAN METEOROLOGICAL SOCIETY. Two or three each year, 1920-, reported by Charles F. Brooks in BAMS and sometimes in Sci., and MWR as well.

CLOUD FORMS (photographic cloud chart), U. S. Weather Bureau, about 1920;

WHY THE WEATHER? Over 1200 daily notes for newspapers. Co-author with John Nelson [to Feb. 1924], and Eleanor Stabler Brooks, Science Service, May 14, 1923-April 30, 1927. Many reprinted in BAMS. (Continued since 1927 by C. F. Talman.)

WHY THE WEATHER? (book). With collab. of John Nelson and Eleanor Stabler Brooks], Harcourt, Brace & Co., New York, 1924, 310 pp., 39 illus. Part reprinted in Junior High School Literature Series, Bk. II, Bobbs-Merrill, 1928. (Listed by Wash'n. Acad. of Sci. and Amer. Library Assn. as one of the 100 best books in popular science.)

SOLAR RADIATION AND THE ATMOSPHERE, SOLAR CLIMATE, HELIOTHERAPY. F. V. T., PHENOLOGY; RESPONSES OF LIFE TO THE ADVANCE OF THE SEASONS, CYCLONES AND ANTICYCLONES, HYDRO-METEOROLOGY, BAMS, 1925, 6: 25-34, 47-48, 57-59, 73-76; [General summaries of certain phases of meteorology.] Co-author with Frances V. Tripp;

ICESTORMS AND SLEET, Home Geographic Monthly, 1931, 1: 20-25;

20 or more brief articles and notes. BAMS, Sci., GR, and Yale Rev., 1917-1931.

## EDITORIAL OR INVESTIGATIVE DISCUSSIONS OF PAPERS BY OTHERS. REVIEWS

(Brooks, Charles F., Editor)

Monthly Weather Review, Nov., 1918-June, 1919 (Associate editor).

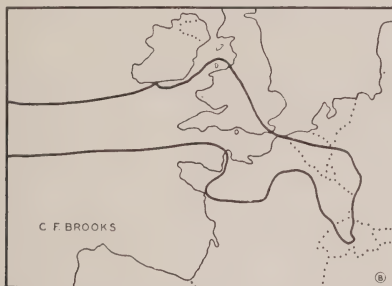
Monthly Weather Review, July, 1919-June, 1921 (Editor).

(Brooks, Charles F., Editor)

Bulletin of the American Meteorological Society. Worcester, Mass., Jan., 1920-Dec., 1925; May, 1927-.

20 longer discussions of papers by others.

MWR, BAMS, Bull. Am. Geogr. Soc., and Met. Zeitschr., 1915-1922: (Hot volcanic blasts, tornadoes, excessive rainfall, direction of rotation of cyclonic depressions, subway temperatures, cold waves, origin of cyclones, free air temperatures, and other topics.)



CHARLES F. BROOKS' ROUTES OF TRAVEL  
IN NORTHWESTERN EUROPE

## ANTHROPOGEOGRAPHY

ISLAND NANTUCKET, GR, 1917, 4: 197-207;

## MISCELLANEOUS ARTICLES AND NOTES

PAPERS ON SLEET AND GLAZE (Ice Storms), co-author with C. LeRoy Meisinger, MWR, 1920, 48: 69-80.

"The Nature of Sleet and How It Is Formed," C. F. B., 69-72.

"Boundary Between a South Wind and an Underrunning Northeast Wind," C. F. B., 72;

ORIGIN OF SOME SECONDARY CYCLONES ON THE MIDDLE ATLANTIC COAST, MWR, 1921, 49: 12-13;

SMOKE AS AN INDICATOR OF GUSTINESS AND CONVECTION, co-author with P. W. Etkes, MWR, 1918, 46: 459-460;

SOME UNDESIRABLE CLIMATIC FEATURES OF THE SHORES OF SMALL LAKES, BAMS, 1923, 4: 125-127;

CLIMATES OF PHYSIOGRAPHIC REGIONS, Jour. of Geog., 1924, 23: 326-328;

Over 50 minor papers, discussions and notes, MWR, BAMS, Sci., GR and Ec. Geog., 1916-1931.

## *Douglas C. Ridgley*

INDIANA UNIVERSITY, A.B., 1893.

UNIVERSITY OF CHICAGO, M.S., 1922.

CLARK UNIVERSITY, Ph.D., 1925.

TEACHER, Public Schools of Indiana, 1884-86, 1887-89, 1891-92, 1893-95.

TEACHER, West Division High School, Chicago, Illinois, 1895-1900.

PRINCIPAL, Victor F. Lawson Grammar School, Chicago, Illinois, 1900-03.

PROFESSOR of Geography and Head of Department of Geography, Illinois State Normal University, 1903-22.

SPECIAL LECTURER in Geography, Clark University, 1922-24.

ASSOCIATE PROFESSOR of Geography in Education, Clark University, 1924-27;  
Professor, 1927-.

DIRECTOR of the Home Study Department, Clark University, 1922-.

DIRECTOR of the Summer School, Clark University, 1925-.

PROFESSOR of Geography, First College Cruise around the World, 1926-27.

OVERSEAS SERVICE with the American Expeditionary Forces in France,  
December 1918-July 1919, Director of Geography, Army Educational  
Corps.

Sigma Xi.

National Council of Geography Teachers (President 1931).

National Society for the Study of Education.

Member of Committee on Yearbook on Geography for 1933.

National Academy of Visual Instruction (Vice-President of the Massachusetts Branch).

EDITOR of Geographical Classification of Keystone View Company's *600 Set*, 1906, with revisions in 1908, 1911, 1917, 1926.

ASSOCIATE EDITOR, *Journal of Geography*, 1925-.

ASSOCIATE EDITOR, *Home Geographic Monthly*, 1930-31.

MEMBER of Editorial Board for the preparation of the *Yearbook on Geography*,  
to be published by the National Society of Education, 1930-.



## PUBLICATIONS

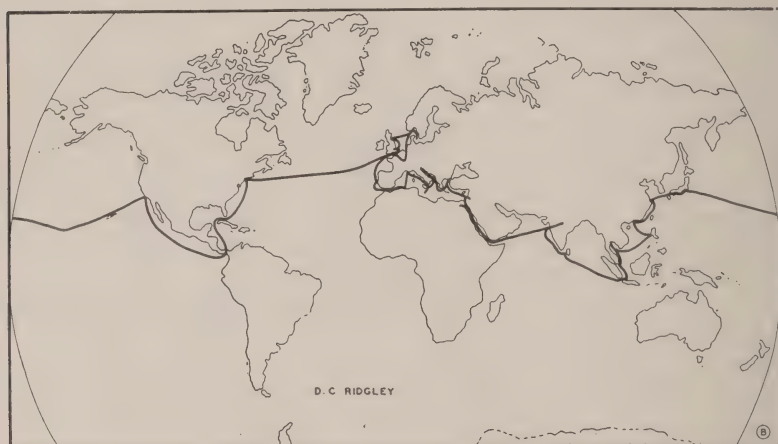
- SCHOOL EXCURSION AND THE SCHOOL MUSEUM. Jour. of Geog., 1904, 3: 322-333;
- GEOGRAPHY, FOURTH AND EIGHTH YEAR. School News and Practical Educator, 1907, 21: 19-21, 74-76, 111-112, 154-156; 1908, 21: 205-207, 247-249, 300-301, 350-351, 397-399, 449-451;
- A TRIP AROUND THE WORLD ON THE FORTIETH PARALLEL OF NORTH LATITUDE. McKnight and McKnight, 1910, 32 pp.;
- GENERAL CIRCULATION OF THE ATMOSPHERE. McKnight and McKnight, 1910, 48 pp.;
- RAINFALL OF THE EARTH. McKnight and McKnight, 1910, 48 pp.;
- VEGETATION ZONES OF THE EARTH. McKnight and McKnight, 1910, 48 pp.;
- OUTLINE MAPS AND THEIR USE. McKnight and McKnight, 1910, 8 pp.;
- GEOGRAPHY, FOURTH, FIFTH, AND SEVENTH YEARS. School News and Practical Educator, 1910, 24: 16-18, 58-60, 135-138, 157-159; 1911, 24: 201-204, 251-253, 298-299, 353-355;
- GEOGRAPHIC INFLUENCES IN THE DEVELOPMENT OF ILLINOIS. Jour. of Geog., 1911, 9: 209-214;
- THE TEACHING OF PLACE GEOGRAPHY. Jour. of Geog., 1912, 11: 13-16;
- NEEDS OF ELEMENTARY GEOGRAPHY. Jour. of Geog., 1912, 10: 257;
- THE PROBLEM OF PLACE GEOGRAPHY. Jour. of Geog., 1914, 12: 333-340;
- HOME GEOGRAPHY. A textbook based on the Illinois State Course of Study. Co-author with L. M. Eyestone. McKnight and McKnight, 1915, 112 pp. Also 1918;
- THE WORLD AS A WHOLE. A reference notebook. Co-author with M. E. Robb. McKnight and McKnight, 1916, 96 pp. Also 1918;
- NORTH AMERICA. A reference notebook to accompany any textbook in geography. Co-author with M. E. Robb. McKnight and McKnight, 1916, 96 pp. Also 1918;
- SOUTH AMERICA AND EUROPE. A reference notebook. Co-author with M. E. Robb. McKnight and McKnight, 1917, 96 pp. Also 1918;
- ASIA, AFRICA, AND AUSTRALIA. A reference notebook. Co-author with M. E. Robb. McKnight and McKnight, 1917, 96 pp. Also 1918;
- GEOGRAPHY, FOURTH YEAR. School News and Practical Educator, 1917, 31: 27-29, 76-77, 125-127, 172-173; 1918, 31: 214-217, 257-259, 318-320, 359-361;

GEOGRAPHY, FIFTH AND SEVENTH YEARS. School News and Practical Educator, 1918, 32: 21-24, 68-69, 115-116, 167-169; 1919, 32: 217-219, 259-261, 311-313, 355-356;

WITH THE EXPEDITIONARY FORCES. Ohio Teacher, 1919, 30: 145-147;

THE GEOGRAPHY OF ILLINOIS. The University of Chicago Press, 1921, 385 pp.;

STUDIES IN THE GEOGRAPHY OF NORTH AMERICA. With others. McKnight and McKnight, 1921, 96 pp. Also 1927;



DOUGLAS C. RIDGLEY'S ROUTES OF TRAVEL AROUND THE WORLD

STUDIES IN AFRICA, AUSTRALIA, AND ADVANCED WORLD GEOGRAPHY. Co-author with E. F. Imboden. McKnight and McKnight, 1921, 128 pp. Also 1927;

STUDIES IN THE GEOGRAPHY OF SOUTH AMERICA, EUROPE, AND ASIA. Co-author with L. M. Dexheimer. McKnight and McKnight, 1921, 96 pp. Also 1927;

HOME GEOGRAPHY. A first year in geography. Co-author with J. M. Dillon. McKnight and McKnight, 1921, 128 pp. Also 1927;

FORTY-EIGHT STATES AND THEIR POPULATION IN 1920. Jour. of Geog., 1921, 20: 187-190;

SIXTY-EIGHT CITIES OF THE UNITED STATES IN 1920. Jour. of Geog., 1921, 20: 75-79;

STUDIES IN WORLD GEOGRAPHY. With others. McKnight and McKnight, 1922, 128 pp. Also 1927;

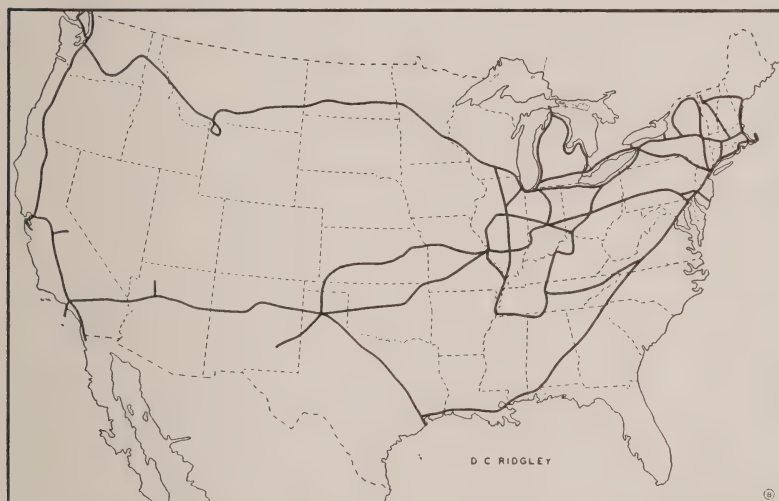
A FIVE YEAR COURSE IN GEOGRAPHY FOR THE ELEMENTARY SCHOOL. With others. McKnight and McKnight, 1922, 112 pp.;

THE TEACHING OF DIRECTION IN SPACE AND ON MAPS. Jour. of Geog., 1922, 21: 66-72;

GEOGRAPHY FOR RURAL SCHOOLS. Jour. of Geog., 1923, 22: 108-113;

LOCAL GEOGRAPHY FOR BEGINNERS. Co-author with J. M. Dillon. McKnight and McKnight, 1924, 239 pp.;

ECONOMIC GEOGRAPHY. A reference notebook for high school students. Co-author with M. P. Crompton. McKnight and McKnight, 1924, 96 pp.



DOUGLAS C. RIDGLEY'S ROUTES OF TRAVEL IN THE UNITED STATES

GEOGRAPHIC PRINCIPLES AND THEIR APPLICATION TO THE TEACHING OF GEOGRAPHY. Co-author with P. E. James. Jour. of Geog., 1924, 23: 136-141;

GEOGRAPHIC PRINCIPLES: THEIR APPLICATION TO THE ELEMENTARY SCHOOL. Houghton-Mifflin Co., 1925, 190 pp.;

PHYSIOGRAPHY. A reference notebook for high schools. Co-author with M. P. Crompton. McKnight and McKnight, 1925, 96 pp.;

STUDIES IN THE GEOGRAPHY OF ASIA. A reference notebook. Co-author with L. M. Dexheimer. McKnight and McKnight, 1925, 32 pp.;

STUDIES IN THE GEOGRAPHY OF SOUTH AMERICA. A reference notebook. Co-author with L. M. Dexheimer. McKnight and McKnight, 1925, 32 pp.;

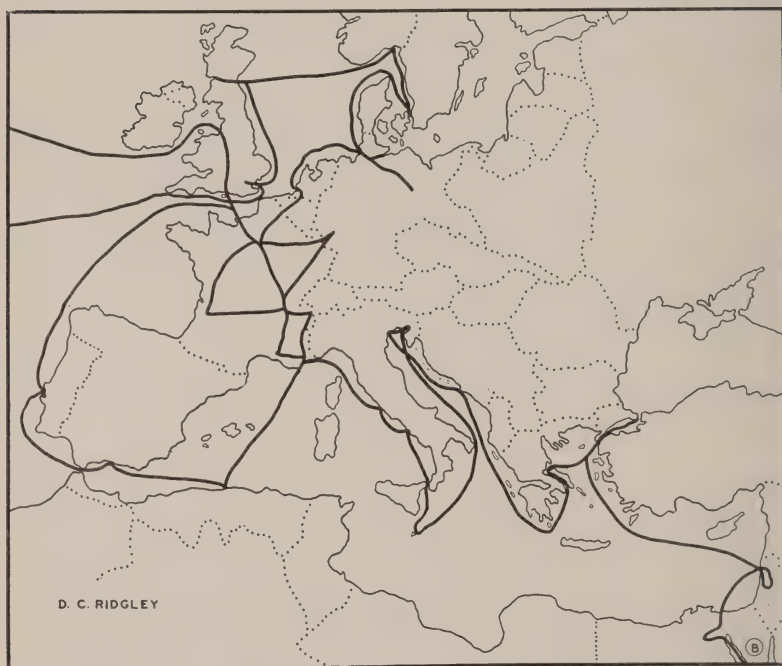
STUDIES IN THE GEOGRAPHY OF EUROPE. Co-author with L. M. Dexheimer. McKnight and McKnight, 1925, 48 pp.;

GEOGRAPHIC PRINCIPLES IN THE STUDY OF CITIES. Jour. of Geog., 1925, 24: 66-79;

STUDIES IN UNITED STATES HISTORY FROM OLD WORLD BEGINNINGS TO 1815. Co-author with H. H. Russell. McKnight and McKnight, 1926, 96 pp.;

STUDIES IN UNITED STATES HISTORY FROM 1815 TO 1927. Co-author with H. H. Russell. McKnight and McKnight, 1926, 96 pp.;

THE NECESSITY OF ACCURATE KNOWLEDGE ABOUT PLACES. *Jour. of Geog.*, 1926, 25: 169-176;



DOUGLAS C. RIDGLEY'S ROUTES OF TRAVEL IN EUROPE AND THE MEDITERRANEAN REGION

TWELVE HUNDRED SELECTED PLACE NAMES. *Jour. of Geog.*, 1926, 25: 201-222;

A COLLEGE CRUISE AROUND THE WORLD. *Jour. of Geog.*, 1926, 25: 350-352; 1927, 26: 108-115;

SHIPS AT SEA. *Jour. of Geog.*, 1927, 26: 159-164, 195-197;

A STUDY OF CHILDREN'S LEARNING ABOUT PLACES. Clark University, 1928, 142 pp.;

MATHEMATICAL GEOGRAPHY AND GEOGRAPHIC FACTORS OF WORLD WIDE APPLICATION. Co-author with E. F. Imboden. McKnight and McKnight, 1928, 64 pp.;

- WORLD GEOGRAPHY. Based on the New York State Course of Study. With others. McKnight and McKnight, 1928, 128 pp.;
- HOME GEOGRAPHY. Based on the New York State Course of Study. With others. McKnight and McKnight, 1928, 128 pp.;
- THE FIRST COLLEGE CRUISE AROUND THE WORLD. Jour. of Geog., 1928, 27: 70-76;
- SOME TOPICS IN GEOGRAPHY OF VALUE TO THE ENGLISH CLASS. Elementary English Rev., 1928, 5: 270-322;
- STUDIES IN THE GEOGRAPHY OF NEW YORK STATE AND NORTH AMERICA. With others. McKnight and McKnight, 1929, 129 pp.;
- STUDIES IN THE GEOGRAPHY OF SOUTH AMERICA, EUROPE, AFRICA, AND ASIA. With others. McKnight and McKnight, 1929, 128 pp.;
- STUDIES IN THE GEOGRAPHY OF THE WESTERN HEMISPHERE. With others. McKnight and McKnight, 1929, 96 pp.;
- TWO NEW COURSES OF STUDY IN GEOGRAPHY. Jour. of Geog., 1929, 28: 318-326;
- PHYSIOGRAPHY. A reference notebook. With E. R. Blackburn. McKnight and McKnight, 1930, 80 pp.;
- COMMERCIAL GEOGRAPHY. A reference notebook. With E. R. Blackburn. McKnight and McKnight, 1930, 80 pp.
- A COLLEGE WORKBOOK IN WEATHER AND CLIMATE. Co-author with C. E. Koeppe. McKnight and McKnight, 1930, 128 pp.;
- STUDIES IN THE GEOGRAPHY OF OHIO AND NORTH AMERICA. With others. McKnight and McKnight, 1930, 128 pp.;
- SOME SPECIAL TOPICS IN GEOGRAPHY WHICH NEED SPECIAL CONSIDERATION BY THE TEACHER. Jour. of Geog., 1930, 29: 265-269;



## Clarence Fielden Jones

UNIVERSITY OF CHICAGO, B.S., 1917; Ph.D., 1923.

PRINCIPAL, Pleasantview High School, Pleasantview, Illinois, 1913-14.  
HEAD of Geography Department, Normal School, St. Cloud, Minn., 1917-Feb., 1918.

INSTRUCTOR of Geography, Illinois State Normal University, summer, 1920.  
ASSISTANT INSTRUCTOR in Geography, University of Chicago, 1921-23.  
ASSISTANT PROFESSOR in Geography, Clark University, 1923-26; Associate Professor, 1926-28; Professor, 1928-.

LECTURER in Geography, Western State Teachers College, summer, 1924.  
VISITING PROFESSOR, University of Iowa, summers, 1924 and 25.  
VISITING PROFESSOR, Wellesley College, autumn, 1930-31.

U. S. ARMY, Private Engineer, Regimental Sergeant-Major Infantry, February, 1918-July, 1919.

Sigma Xi.

Association of American Geographers.

American Association for the Advancement of Science.

American Academy of Political and Social Science.

American Geographical Society.

ASSOCIATE EDITOR, *Economic Geography*.

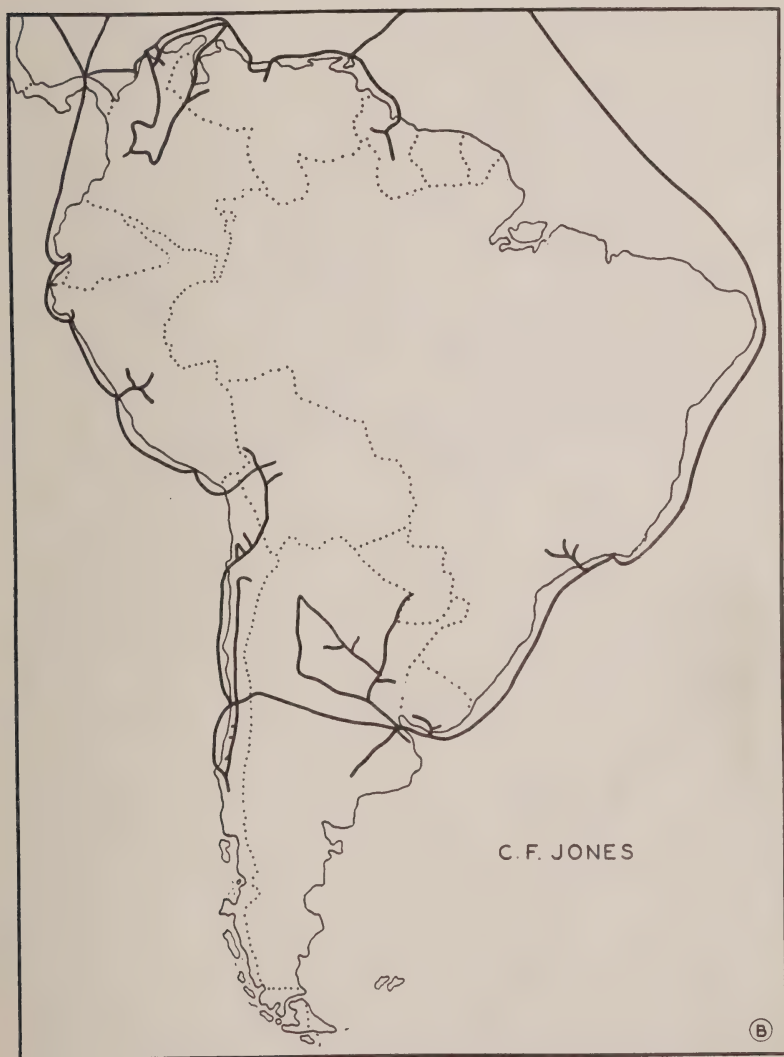
EDITING numerous articles on Latin America for the last edition of *Encyclopedia Britannica*.

Carefully reading three manuscripts for authors for publishing concerns.

## PUBLICATIONS

TEA IN ASSAM, INDIA. Jour. of Geog., 1924, 23: 181-188;

TRANSPORTATION ADJUSTMENTS IN THE RAILWAY ENTRANCES AND TERMINAL FACILITIES AT MONTREAL. Bull. Geog. Soc. Phila., 1924, 22: 98-110.

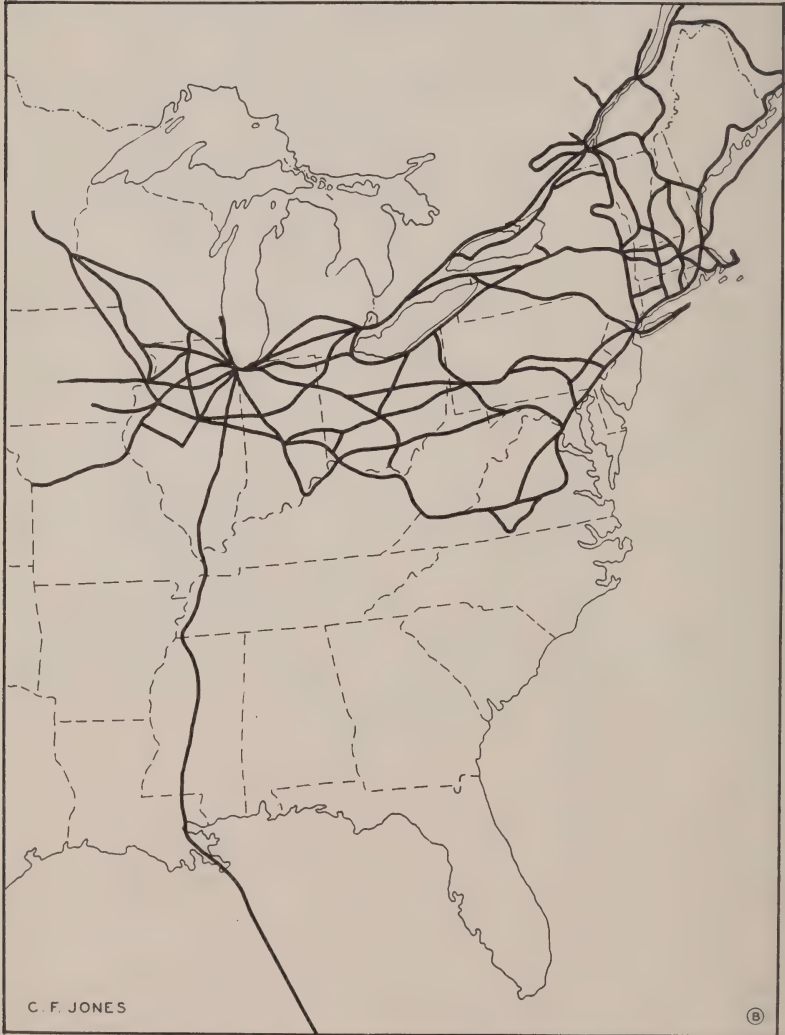


CLARENCE F. JONES' ROUTES OF TRAVEL IN SOUTH AMERICA

THE ECONOMIC ACTIVITIES OF THE FALKLAND ISLAND. *Geog. Rev.*, 1924, 14: 394-403;

TRENDS IN MODERN GEOGRAPHY. *Science (New Series)*, 1924, 40: 374-376;

GEOGRAPHIC INFLUENCES IN THE ROUTES AND TRAFFIC OF THE ATLANTIC RAILWAY CONNECTIONS AT MONTREAL. *Bull. Geog. Soc. Phila.*, 1925, 23: 1-13;



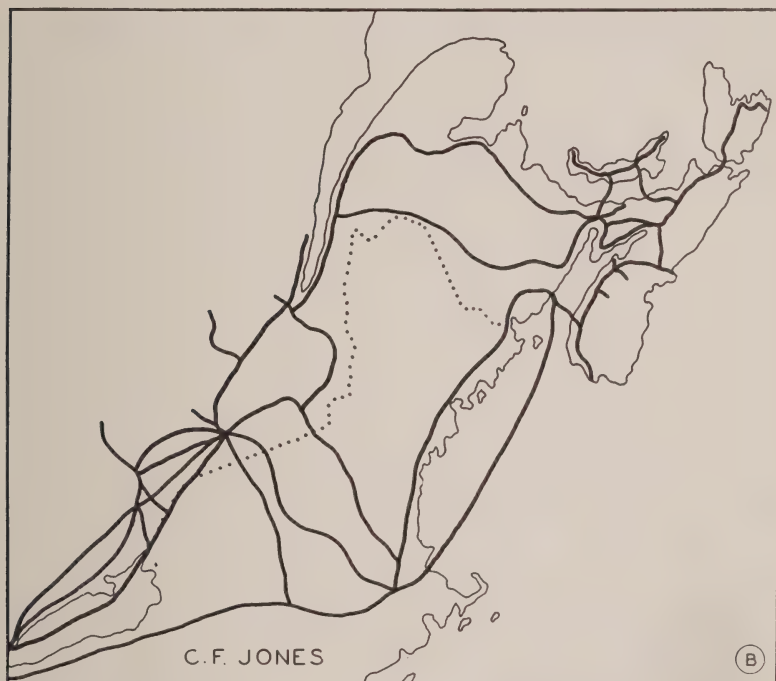
CLARENCE F. JONES' ROUTES OF TRAVEL IN EASTERN  
UNITED STATES AND CANADA

THE GRAIN TRADE OF MONTREAL. Econ. Geog., 1925, 1: 53-73;

THE CHARACTER AND DISTRIBUTION OF SOUTH AMERICAN TRADE. Econ. Geog., 1926, 2: 143-168;

ARGENTINE TRADE DEVELOPMENTS. Econ. Geog., 1926, 2: 358-393;

EVOLUTION OF BRAZILIAN COMMERCE. Econ. Geog., 1926, 2: 550-574;



CLARENCE F. JONES' ROUTES OF TRAVEL IN EASTERN CANADA  
AND NEW ENGLAND

THE COMMERCIAL GROWTH OF PERU. Econ. Geog., 1927, 3: 23-49;

CHILEAN COMMERCE. Econ. Geog., 1927, 3: 139-166;

THE TRADE OF URUGUAY. Econ. Geog., 1927, 3: 361-381;

THE UNITED STATES AND ITS CHIEF COMPETITORS IN S. A. TRADE. Econ. Geog., 1927, 3: 409-433;

THE COTTON INDUSTRY OF PERU. Co-author with A. H. Rosenfeld. Econ. Geog., 1927, 3: 507-523;

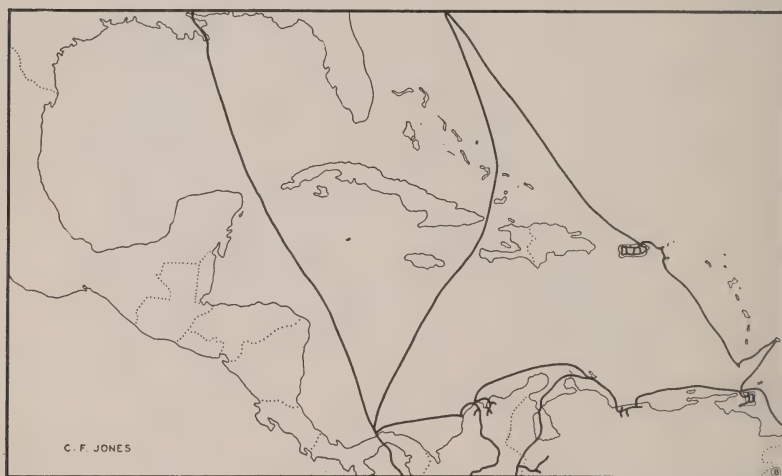
COMMERCE OF SOUTH AMERICA. Ginn and Co., Boston, 1928, 584 pp.;

SOUTH AMERICA. Henry Holt and Co., New York, 1930, 798 pp.;

OUR CITY—CHICAGO. Co-author with E. F. Campbell and F. R. Smith. Scribners, New York, 1930, 431 pp.;

Agricultural Regions of South America. In seven instalments. Econ. Geog., Instalment I, 1928, 4: 1-30; Instalment II, 1928, 4: 159-186; Instalment III, 1928, 4: 267-294; Instalment IV, 1929, 5: 109-140; Instalment V, 1929, 5: 277-307; Instalment VI, 1929, 5: 390-421; Instalment VII, 1930, 6: 1-36;

THE SEASONAL DISTRIBUTION OF RAINFALL IN S. A. Co-author with C. Gooze. Bull. Geog. Soc. of Phila., 1928, 26: 93-115;



CLARENCE F. JONES' ROUTES OF TRAVEL IN TROPICAL AMERICA



## W. Elmer Ekblaw

UNIVERSITY OF ILLINOIS, A.B., 1910; A.M., 1912.

CLARK UNIVERSITY, Ph.D., 1926.

RESEARCH FELLOW, University of Illinois, 1910-13.

BOTANIST and Geologist, Crocker Land Arctic Expedition, 1913-17.

RESEARCH ASSOCIATE, American Museum of Natural History, New York and  
Research Scholar, University of Illinois, 1917-20.

FIELD GEOLOGIST, 1920-24.

HONORARY FELLOW in Geography, Clark University, 1924-26.

ASSOCIATE PROFESSOR in Geography, Clark University, 1926-28; Professor,  
1928-.

Sigma Xi.

Gamma Alpha.

Explorers Club.

American Association for the Advancement of Science.

American Geographical Society.

Association of American Geographers.

Swedish Society for Anthropology and Geography.

Norwegian Geographic Society.

Society for the Advancement of Scandinavian Study

American Scandinavian Foundation

American Anthropological Society

Academy of Social and Political Science

Illinois Academy of Science

American Ecological Society

British Ecological Society

New England Botanical Club

American Ornithologists' Union

Wilson Ornithological Club

International Society of Soil Science

American Society of Agronomy

National Parks Association

Aeroarctic.

American Forestry Association.

American Meteorological Society.

American Society of Mammalogists.

National Geographic Society.

American Russian Institute.

ASSISTANT EDITOR, *Economic Geography*.

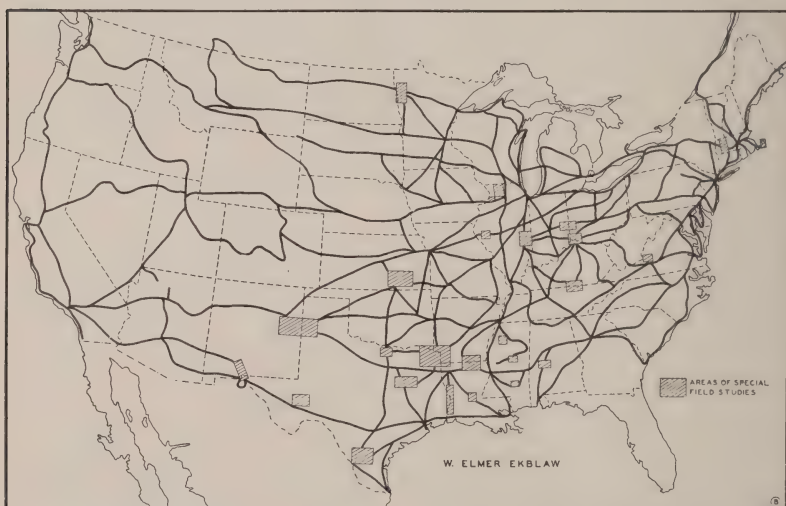
EDITOR, *Home Geographic Monthly*.

## PUBLICATIONS

CORRELATION OF THE DEVONIAN SYSTEM OF THE ROCK ISLAND REGION. Transactions of the Illinois Acad. of Sci., Fifth Annual Meeting, Bloomington, Ill., Feb. 23 and 24, 1912;

ALONG UNKNOWN SHORES. From "Four Years in the White North" by D. B. MacMillan, Harper & Bros., New York, 1918;

THE IMPORTANCE OF NIVATION AS AN EROSION FACTOR, AND OF SOIL FLOW AS A TRANSPORTING AGENCY, IN NORTHERN GREENLAND. Proc. Nat. Acad. of Sci., 1918, 4: 288-293;



W. ELMER EKBLAW'S ROUTES OF TRAVEL AND AREAS OF SPECIAL FIELD STUDIES  
IN THE UNITED STATES

FINDING THE NEST OF THE KNOT. Wilson Bull., 1918, No. 105;

THE FOOD BIRDS OF THE SMITH SOUND ESKIMOS. Wilson Bull., 1919, No. 106;

BIRDS FROM A SICK MAN'S WINDOW. Wilson Bull., 1919, No. 108;

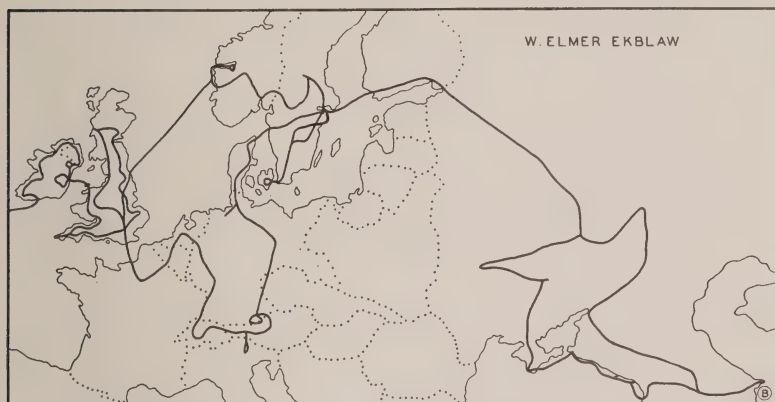
THE ECOLOGICAL RELATIONS OF THE POLAR ESKIMO. Ecology, 1921, Vol. 2, no. 2;

THE MATERIAL RESPONSES OF THE POLAR ESKIMO TO THEIR FAR ARCTIC ENVIRONMENT. Annals of the Assoc. of Amer. Geog., Dec., 1927-Mar., 1928;

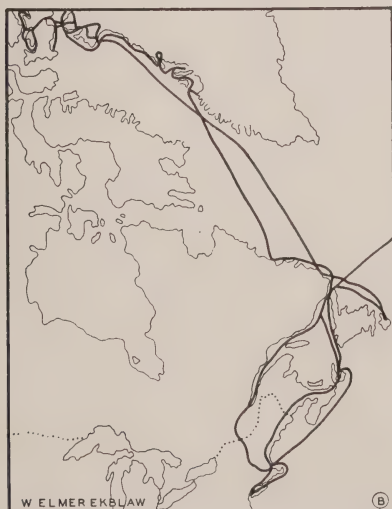
Crocker Land Reports (as yet unpublished but in the hands of the Editor) to the American Museum of Natural History:

1. MAMMALS OF NORTHWEST GREENLAND.
2. THE GEOLOGY OF NORTHWEST GREENLAND AND ELLESMERE LAND.

3. THE LAND AND LIFE OF THE POLAR ESKIMO.
4. STUDIES IN DANISH GREENLAND.
5. GEOGRAPHICAL EXPLORATIONS IN NORTHWEST GREENLAND AND ELLESMERE LAND.
6. THE BIRDS OF THE FAR ARCTIC.
7. A BOTANICAL SURVEY OF NORTHWEST GREENLAND AND ELLESMERE LAND.



W. ELMER EKBLAW'S ROUTES OF TRAVEL IN EUROPE



W. ELMER EKBLAW'S ROUTES OF TRAVEL  
TO AND FROM THE ARCTIC REGION



## COURSES OF INSTRUCTION

The following courses have been offered one or more times in the Graduate School of Geography:

### PHYSIOGRAPHY

Regional Physiography . . . . .	<i>Wallace W. Atwood</i>
Principles in Physiography . . . . .	<i>Wallace W. Atwood</i>
Interpretation of Physiographic Features . . . . .	<i>Wallace W. Atwood</i>
Physiography of the United States . . . . .	<i>Wallace W. Atwood</i>
Physiographic Regions of North America . . . . .	<i>Wallace W. Atwood</i>
Physiographic Regions of the Eastern Hemisphere . . . . .	<i>Wallace W. Atwood</i>
Physiographic Regions of the World . . . . .	<i>Wallace W. Atwood</i>
Research in Physiography . . . . .	<i>Wallace W. Atwood</i>
Research in Regional Physiography . . . . .	<i>Wallace W. Atwood</i>
Seminar in Physiography . . . . .	<i>Wallace W. Atwood</i>

### METEOROLOGY AND CLIMATOLOGY

Meteorology . . . . .	<i>Charles F. Brooks</i>
Applied Meteorology . . . . .	<i>Charles F. Brooks</i>
Research in Meteorology . . . . .	<i>Charles F. Brooks</i>
Climatology . . . . .	<i>Charles F. Brooks</i>
Principles of Climatology . . . . .	<i>Charles F. Brooks</i>
The Passing Weather . . . . .	<i>Charles F. Brooks</i>
Climatology of North America . . . . .	<i>Charles F. Brooks</i>
Climates of the Eastern Hemisphere . . . . .	<i>Charles F. Brooks</i>
Climates of the World . . . . .	<i>Charles F. Brooks</i>
Climatic Regions of the World . . . . .	<i>Charles F. Brooks</i>
Climatic Environment of the White Race . . . . .	<i>Charles F. Brooks</i>
Influences of Climatic Environment . . . . .	<i>Charles F. Brooks</i>
Research in Climatology . . . . .	<i>Charles F. Brooks</i>
Research in Climates of the World . . . . .	<i>Charles F. Brooks</i>
Seminar in Climates . . . . .	<i>Charles F. Brooks</i>

### SOILS AND PLANT GEOGRAPHY

Soils and Plant Geography . . . . .	<i>Curtis F. Marbut and Homer L. Shantz</i>
Research in Soils and Plant Geography . . . . .	<i>Curtis F. Marbut and Homer L. Shantz</i>



Soil Geography . . . . .	<i>Curtis F. Marbut</i>
Soil Survey Work (summer) . . . . .	<i>Oliver E. Baker</i>
Plant Geography . . . . .	<i>W. Elmer Ekblaw</i>
Plant Regions of North America . . . . .	<i>W. Elmer Ekblaw</i>
Plant Regions of the Eastern Hemisphere . . . . .	<i>W. Elmer Ekblaw</i>
Plant Regions of the World . . . . .	<i>W. Elmer Ekblaw</i>
Research in Soils . . . . .	<i>Curtis F. Marbut</i>
Research in Plant Geography . . . . .	<i>W. Elmer Ekblaw</i>

#### AGRICULTURAL GEOGRAPHY AND LAND UTILIZATION

Land Utilization in the United States . . . . .	<i>Oliver E. Baker</i>
Agricultural Regions of the United States and Canada . . . . .	<i>Oliver E. Baker</i>
Agricultural Regions of North America . . . . .	<i>Oliver E. Baker</i>
Research in Land Utilization . . . . .	<i>Oliver E. Baker</i>
Research in Agricultural Geography . . . . .	<i>Oliver E. Baker</i>
Land Utilization and Agricultural Resources . . . . .	<i>Oliver E. Baker and W. Elmer Ekblaw</i>
Agricultural Geography and Land Utilization . . . . .	<i>W. Elmer Ekblaw</i>
Physical Basis of Agriculture . . . . .	<i>W. Elmer Ekblaw</i>
Physical Basis of United States Agriculture . . . . .	<i>W. Elmer Ekblaw</i>
Agricultural Regions of Europe . . . . .	<i>Olof G. Jonasson</i>
Agricultural Regions of North America . . . . .	<i>W. Elmer Ekblaw</i>
Agricultural Regions of the Eastern Hemisphere . . . . .	<i>W. Elmer Ekblaw</i>
Agricultural Regions of the World . . . . .	<i>W. Elmer Ekblaw</i>
Research in Agricultural Geography . . . . .	<i>W. Elmer Ekblaw</i>
Research in Land Utilization . . . . .	<i>W. Elmer Ekblaw</i>

#### ECONOMIC, INDUSTRIAL, AND COMMERCIAL GEOGRAPHY

Natural Resources and Their Conservation . . . . .	<i>Wallace W. Atwood</i>
Economic Geography of Europe . . . . .	<i>Stanislaus Novakovsky</i>
Economic Geography of Asia . . . . .	<i>Stanislaus Novakovsky</i>
Economic Geography . . . . .	<i>Clarence F. Jones</i>
Economic Geography of North America . . . . .	<i>Clarence F. Jones</i>
Economic Geography of South America . . . . .	<i>Clarence F. Jones</i>
Industrial Geography . . . . .	<i>Clarence F. Jones</i>
Geography of World Commerce . . . . .	<i>Special Lecturers</i>
Geography of South American Commerce . . . . .	<i>Clarence F. Jones</i>
Geographic Aspects of United States Foreign Trade . . . . .	<i>Clarence F. Jones</i>
Geographic Aspects of World Trade . . . . .	<i>Clarence F. Jones</i>
Research in Economic Geography . . . . .	<i>Clarence F. Jones</i>
Research in Industrial or Commercial Geography . . . . .	<i>Clarence F. Jones</i>

#### ANTHROPOGEOGRAPHY

General Principles of Anthropogeography . . . . .	<i>Ellen C. Semple</i>
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## Geographic Factors in the Location and Development of Cities

*Ellen C. Semple*

Geography of the Mediterranean Region Especially in Relation to  
Ancient History . . . . . *Ellen C. Semple*

Geography of Palestine . . . . . *Ellen C. Semple*

Research in Anthropogeography . . . . . *Ellen C. Semple*

Seminar in Anthropogeography . . . . . *Ellen C. Semple*

General Anthropogeography . . . . . *W. Elmer Ekblaw*

## REGIONAL GEOGRAPHY

Regional Geography of North America . . . . . *Wallace W. Atwood*

Regional Geography of South America . . . . . *Preston E. James*

Comparative Regional Geography . . . . . *Wallace W. Atwood*

Research in Regional Geography . . . . . *Wallace W. Atwood*

Geography of North America *Wallace W. Atwood, Charles F. Brooks*  
*Harry N. Whitford, Curtis F. Marbut, Homer L. Shantz,*  
*and Oliver E. Baker*

Geography of North America . . . . . *Preston E. James*

Geography of South America . . . . . *Preston E. James*

Research in Geography of South America . . . . . *Preston E. James*

Geography of Europe . . . . . *Ellen C. Semple*

Geography of Northwest Europe . . . . . *Ellen C. Semple*

Geography of Eastern Asia . . . . . *Ellen C. Semple*

Geography of Europe . . . . . *Samuel Van Valkenburg*

Geography of the Far East . . . . . *Samuel Van Valkenburg*

Geography of Eastern Asia . . . . . *Samuel Van Valkenburg*

Geography of Australasia . . . . . *Samuel Van Valkenburg*

South America . . . . . *Clarence F. Jones*

Caribbean America . . . . . *Clarence F. Jones*

Geography of Europe . . . . . *Charles B. Fawcett*

Geography of the British Empire . . . . . *Charles B. Fawcett*

## GEOGRAPHY IN EDUCATION

The Teaching of Geography . . . . . *Wallace W. Atwood*

The Teaching of Geography . . . . . *Douglas C. Ridgley*

Geography in Education . . . . . *Douglas C. Ridgley*

Research in Geography in Education  
*Douglas C. Ridgley (Guy H. Burnham)*

Cartography and Graphics . . . . . *Oliver E. Baker, Wallace W. Atwood*  
*Guy H. Burnham*

Field Studies in Geography . . . . . *Clarence F. Jones*

Field Work . . . . . *Staff*

Reconnaissance Field Trips in New England . . . . . *W. Elmer Ekblaw*

## GENERAL SEMINARS

General Seminar in Geography (each semester)	Staff
Thesis Seminar in Geography	<i>Ellen C. Semple, W. Elmer Ekblaw, Clarence F. Jones</i>

## HISTORY OF GEOGRAPHY

History of Geography	<i>Ellen C. Semple</i>
History of Geographical Theory	<i>Ellen C. Semple</i>
History of Geographic Exploration	<i>Stanislaus Novakovsky</i>
History of Geography as a Science and the Theories of Geographic Environment in America	<i>Stanislaus Novakovsky</i>
Geography of Exploration	<i>W. Elmer Ekblaw</i>

## OCEANOGRAPHY

General Oceanography	<i>Edward H. Smith</i>
Physical Oceanography	<i>Charles F. Brooks</i>

## COURSES IN CLOSELY RELATED FIELDS

Physics of the Air	<i>Robert H. Goddard and Charles F. Brooks</i>
Historical Geography of the United States	<i>James B. Hedges</i>
Statistics	<i>Frank B. Williams</i>
Land Economics	<i>Samuel J. Brandenburg</i>
General Botany Treated from a Taxonomic and Ecologic Standpoint	<i>David Potter</i>
The Pacific and the Far East	<i>George H. Blakeslee</i>
General Geology	<i>Homer P. Little</i>
Economic Geology	<i>Homer P. Little</i>
Mineralogy	<i>Homer P. Little</i>

## THE FIELD SCHOOL OF GEOGRAPHY

### ESTABLISHMENT OF THE FIELD SCHOOL

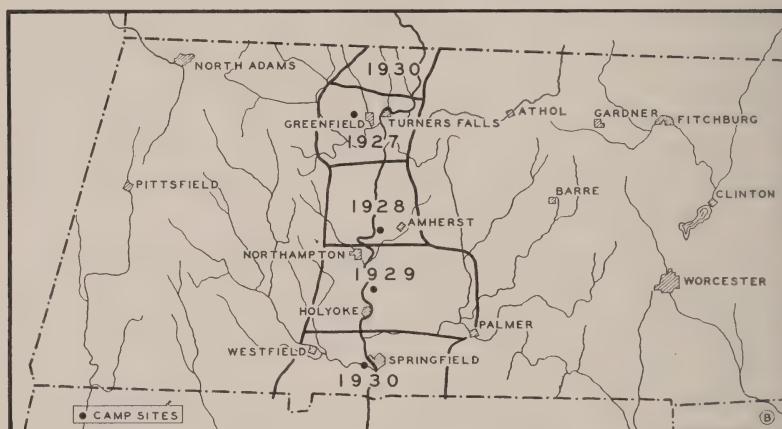
After having conducted many individual courses of field instruction in geography, the members of the staff in 1927 established a program which involved taking all students registered in the Graduate School into the field during the first month of the academic year. Plans were made for the members of the staff and the graduate students to live together in camp and to devote all of their time during the season of the field school to direct observations and to systematic mapping of the facts gathered in the field.

The area selected for study during the first season was in the vicinity of Greenfield, Massachusetts. It included a section of the Connecticut Valley lowland and portions of the adjoining uplands to the east and to the west. This provided a variety in relief, in topography, in soils, considerable differences in climatic conditions, and a number of industrial centers for study.

During the three following seasons camp was established in the Connecticut Valley to the south of Greenfield (see next page). Each season the field work was extended southward until a section of the state from north to south had been completely surveyed. That work was completed in the fall of 1930. On one map the surface formations have been plotted, on another the land utilization of today is shown. Large scale maps have been made for special areas setting forth the utilization of lands in considerable detail. Climatic observations have been made throughout each of the field seasons and in each of the regions the leading industries have been made the subject of special study.

In this work there has been a strong educational element. It has been recognized that those who are planning to go into the profession of geography need training in field methods.

They need training in making accurate observations and gathering statistical material in the field, and in presenting, accurately on a map, the record of their out-of-door observations. Following the field season, the transcribing of field notes and the preparation of written reports, including maps, furnished excellent opportunities for the training of students. The field experiences of instructors and students working together have furnished excellent illustrative material which has enriched classroom discussions. The observations made together have



THE AREAS STUDIED BY THE FIELD SCHOOL OF GEOGRAPHY

helped to make clear many of the principles that are developed in the systematic courses of instruction at the University following the field season.

The field studies have led many of the students to undertake, as thesis problems, local field studies in preference to work based upon published reports of others. Thus many of the theses submitted for Master's degrees have involved original field work similar to that commonly undertaken in the preparation of a thesis for a Doctor's degree.

The field school has served the members of the staff in affording an opportunity for the practical application of ideas relative to the development of outdoor studies in geography. This out-of-door work has virtually come to be a "land



economic survey," and it has contributed to the development of surveying as one of the fields of geographic service.

It is expected that with the opening of the next academic year, in the fall of 1931, the field school work will be transferred to Cape Cod. That region is in a physiographic province that will provide a contrast to the Connecticut Valley and adjoining uplands of New England. Cape Cod is a portion of the Atlantic coastal plain. It is composed of glacial deposits that have been modified, since the continental ice disappeared, by streams, shoreline agents and winds. It is a region without great manufacturing industries but the problems of land utilization, of the fisheries, of home industries, of recreation, afford attractive possibilities for another type of field investigation by a group of geographers.



## UNDERGRADUATE INSTRUCTION



## UNDERGRADUATE INSTRUCTION

The following courses in Geography have been offered by the staff primarily for undergraduates:

Principles of Geography . . . . .	<i>Staff</i>
The Elements of Geography . . . . .	<i>Clarence F. Jones</i>
Fundamentals in Geography . . . . .	<i>Douglas C. Ridgley;</i> <i>Samuel Van Valkenburg</i>
Physiography . . . . .	<i>Wallace W. Atwood</i>
Weather and Climate . . . . .	<i>Charles F. Brooks</i>
The Passing Weather . . . . .	<i>Charles F. Brooks</i>
The Weather and Its Relation to Human Affairs	<i>Charles F. Brooks</i>
Meteorology . . . . .	<i>Charles F. Brooks</i>
Laboratory Meteorology . . . . .	<i>Charles F. Brooks</i>
Advanced Meteorology . . . . .	<i>Charles F. Brooks</i>
Geography of North America . . . . .	<i>Douglas C. Ridgley;</i> <i>Wallace W. Atwood; Samuel Van Valkenburg</i>
Geography of Europe . . . . .	<i>Samuel Van Valkenburg</i>
Geography of the Far East . . . . .	<i>Douglas C. Ridgley;</i> <i>Samuel Van Valkenburg</i>
Influence of Geography on American History . . . . .	<i>Clarence F. Jones</i>
Economic Geography . . . . .	<i>Clarence F. Jones</i>
Conservation of Natural Resources . . . . .	<i>Douglas C. Ridgley</i>
Mathematical Geography . . . . .	<i>Guy H. Burnham</i>
Graphics and Cartography . . . . .	<i>Guy H. Burnham</i>
Field Course: The Geography of Worcester and Its Environs	<i>Clarence F. Jones</i>

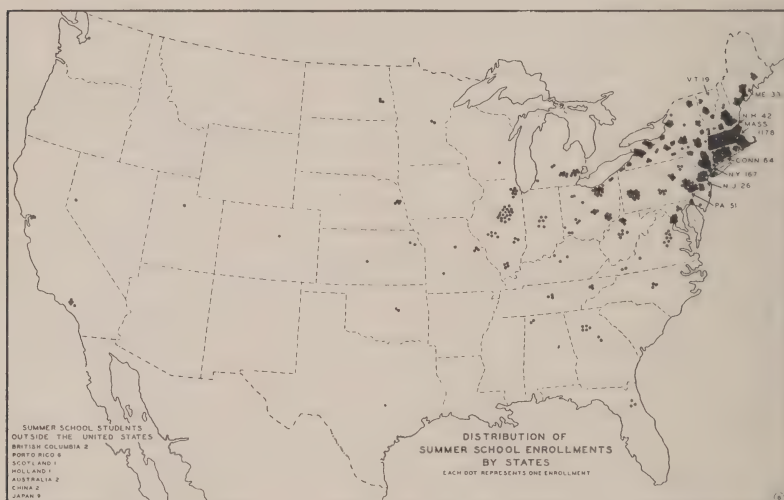
## SUMMER SCHOOL

The Summer School, with the social sciences as the chief centers of interest, was established in 1921, and in 1929 and 1930 the courses of instruction were concentrated in three departments—Geography, History, and Economics. This con-



centration results in a student body of moderate size with ample opportunity for ready use of the abundant resources of the University in these departments. The extensive equipment in the library and map collections offer students exceptional opportunities for profitable study in these fields.

The University is located in a region rich in the variety of its geographic features and in historic scenes. Saturday field



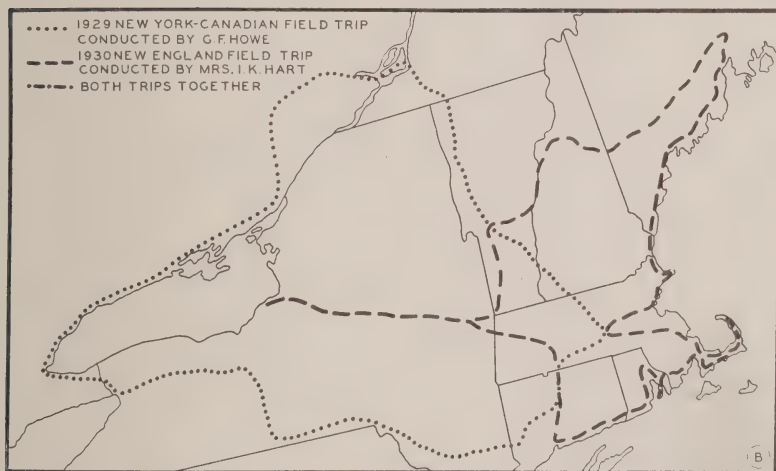
DISTRIBUTION OF SUMMER SCHOOL ENROLLMENTS

trips by motor coach have been developed as a part of the regular summer session. One group of students has the opportunity for field studies in Geography and another for field studies in History.

During the ten sessions of the Summer School, students have been enrolled from 37 states, Porto Rico, and 6 foreign countries (see map above). Of the total class enrollments for this period 49 per cent were in Geography, 20 per cent in History, 7 per cent in Economics, and 24 per cent in other departments. In 1929 and 1930, when all courses were offered in three departments, 64 per cent of all class enrollments were in Geography, 24 per cent in History, and 12 per cent in Economics.

The enrollment of the Summer School has been as follows:

<i>Year</i>	<i>Enrollment</i>
1921 . . . . .	192
1922 . . . . .	179
1923 . . . . .	136
1924 . . . . .	145
1925 . . . . .	141
1926 . . . . .	214
1927 . . . . .	223
1928 . . . . .	215
1929 . . . . .	161
1930 . . . . .	216



ROUTES FOLLOWED BY THE NEW YORK-CANADIAN FIELD TRIP IN 1929 AND THE NEW ENGLAND FIELD TRIP IN 1930

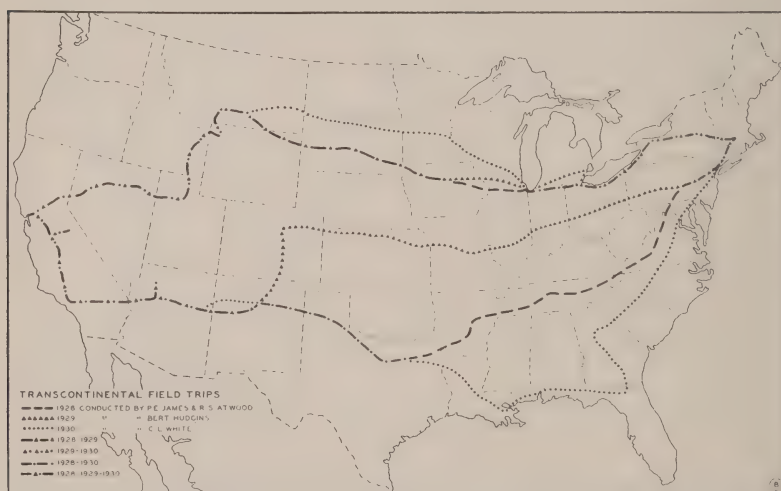
The following courses in Geography have been offered in the Summer School:

#### PHYSIOGRAPHY

Origin and History of Land Forms . . . . .	<i>Wallace W. Atwood</i>
Physical Geography . . . . .	<i>Wallace W. Atwood</i>
Physiography . . . . .	<i>Preston E. James, W. Elmer Ekblaw</i>
Field Physiography . . . . .	<i>Wallace W. Atwood</i>
Physiographic Regions of North America . . . . .	<i>Wallace W. Atwood</i>

## METEOROLOGY AND CLIMATOLOGY

Elementary Meteorology . . . . .	Charles F. Brooks
Elementary Climatology . . . . .	Charles F. Brooks, Clarence E. Koeppe
Weather . . . . .	Charles F. Brooks, Clarence E. Koeppe
The Passing Weather . . . . .	Charles F. Brooks
Weather and Climate . . . . .	Charles F. Brooks
Climatology of North America . . . . .	Charles F. Brooks, Clarence E. Koeppe
Climates of the World . . . . .	Charles F. Brooks, Clarence E. Koeppe
Climatic Environments . . . . .	Charles F. Brooks
The Influence of Climatic Enviroment . . . . .	Charles F. Brooks
Advanced Climatology . . . . .	Charles F. Brooks
Research in Climatology . . . . .	Charles F. Brooks

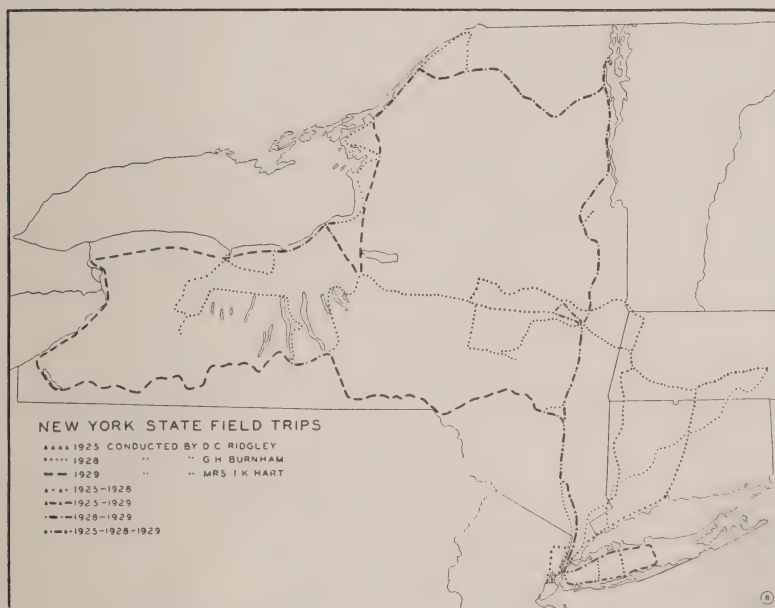


ROUTES OF THE TRANSCONTINENTAL FIELD TRIPS OF THE SUMMER SCHOOL

## REGIONAL GEOGRAPHY

The Regional Treatment of Geography . . . . .	Wallace W. Atwood
Regional Geography . . . . .	Wallace W. Atwood
Research in Regional Geography . . . . .	Wallace W. Atwood, W. Elmer Ekblaw, Clarence F. Jones
Regional Geography of North America . . . . .	Wallace W. Atwood
Geography of North America . . . . .	Wallace W. Atwood, W. Elmer Ekblaw, Clarence F. Jones
Geography of New England . . . . .	Clarence F. Jones
Geography of New York State . . . . .	Alfred W. Abrams
Geography of South America . . . . .	Preston E. James

South America . . . . .	Clarence F. Jones
Research in Geography of South America . . . . .	Clarence F. Jones
Caribbean America . . . . .	Clarence F. Jones
Geography of Europe . . . . .	Willem Van Royen, Julia M. Shipman
Geography of the British Isles and of Continental Europe . . . . .	William H. Barker
Geography of Asia . . . . .	Samuel Van Valkenburg
The Geographical Changes Resulting from the World War . . . . .	Helen G. Thomas



ROUTES FOLLOWED BY THE NEW YORK STATE FIELD TRIPS

## AGRICULTURAL GEOGRAPHY

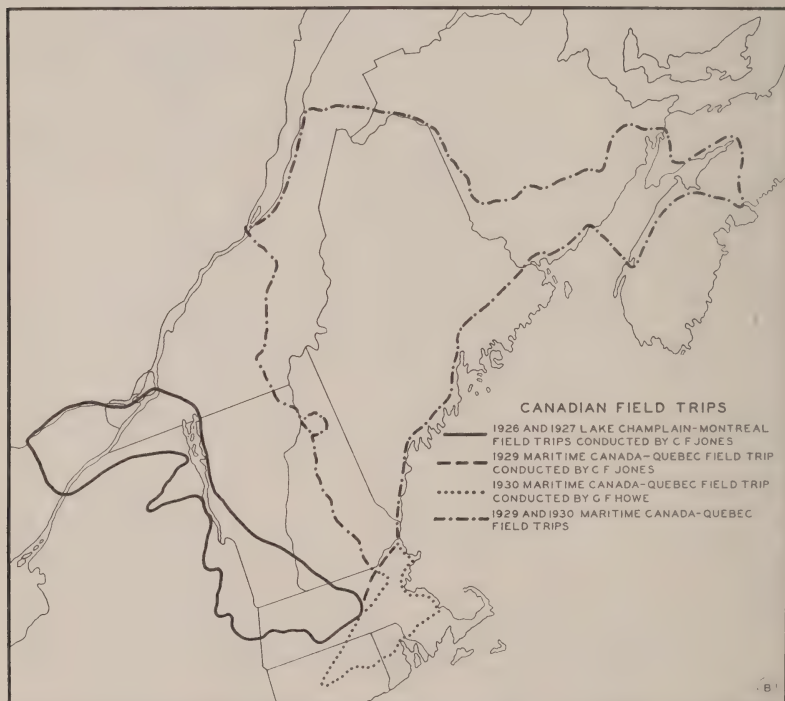
The Geography of United States Agriculture . . . . .	W. Elmer Ekblaw
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## ANTHROPOGEOGRAPHY

Geographic Factors in American History . . . . .	Ellen C. Semple
Geography of the Mediterranean Region . . . . .	Ellen C. Semple
Influences of Geographic Environment . . . . .	W. Elmer Ekblaw
Geographic Influences in the History of the United States . . . . .	Earl C. Case

## ECONOMIC AND COMMERCIAL GEOGRAPHY

Economic Geography	Clarence F. Jones, Julia M. Shipman, Samuel Van Valkenburg
Economic and Commercial Geography	Clarence F. Jones, Earl C. Case, Vernor C. Finch
Economic Geography of North America	Clarence F. Jones, Earl C. Case
Economic Geography of South America	Clarence F. Jones



ROUTES FOLLOWED BY THE CANADIAN FIELD TRIPS OF THE SUMMER SCHOOL

Research in Economic Geography	Clarence F. Jones, Samuel Van Valkenburg
World Trade	Vernor C. Finch
The Natural Resources of the United States and Their Conservation	Helen G. Thomas

## GEOGRAPHY IN EDUCATION

The Teaching of Geography	Wallace W. Atwood, Douglas C. Ridgley, Helen G. Thomas, Myrta L. McClellan
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The Teaching of Geography for the Elementary Grades

*Douglas C. Ridgley*

Human Geography for the Elementary Grades

*Helen G. Thomas*

The Teaching of Geography in Normal Schools and Teachers-Training Colleges

*Douglas C. Ridgley*

Geography in Education for Special Teachers

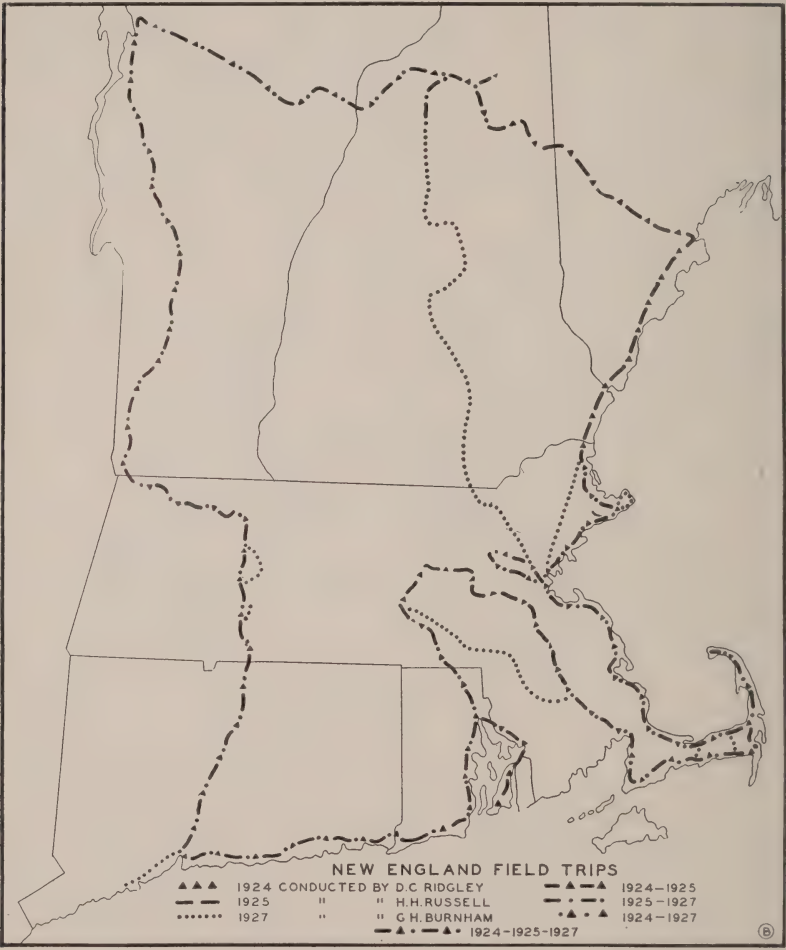
*Douglas C. Ridgley*



THE ROUTE FOLLOWED BY THE EUROPEAN FIELD TRIP IN 1927

The Teaching of Europe and Asia	<i>H. Harrison Russell</i>
Geographic Bases of Nature Study	<i>W. Elmer Ekblaw</i>
Geography of a World Cruise	<i>Douglas C. Ridgley</i>
Laboratory Course in the Teaching of Geography	<i>Myrta L. McClellen</i>
Graphics and Cartography	<i>Guy H. Burnham</i>
Mathematical Geography	<i>Guy H. Burnham</i>
Materials of Geography	<i>Douglas C. Ridgley and Eugene C. Belknap</i>

Visual Aids in Geography and History	.	Douglas C. Ridgley and Eugene C. Belknap
Local Field Geography	.	Douglas C. Ridgley
Field Work in Geography	.	Staff



ROUTES FOLLOWED BY THE NEW ENGLAND FIELD TRIPS OF THE SUMMER SCHOOL

SEMINARS

Seminar in Geography	Wallace W. Atwood and Charles F. Brooks
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FIELD COURSES (during summer sessions)

European Field Trip	Wallace W. Atwood
Transcontinental Field Trip	Preston E. James, Rollin S. Atwood, Bert Hudgins, C. Langdon White

FIELD COURSES (following summer sessions)

New England Field Trip	<i>Douglas C. Ridgley, H. Harrison Russell, Guy H. Burnham, Isabelle K. Hart</i>
The Berkshire—Hudson Valley Trip . . . . .	<i>Douglas C. Ridgley</i>
The Lake Champlain—Montreal Trip . . . . .	<i>Clarence F. Jones</i>
Maritime Provinces of Canada Trip	<i>Clarence F. Jones, George F. Howe</i>
New York State Trip . . . . .	<i>Guy H. Burnham, Isabelle K. Hart</i>
New York State—Canadian Trip . . . . .	<i>George F. Howe</i>

HOME STUDY DEPARTMENT

In 1922 provision was made for the development of Home Study Courses in Geography of special value to teachers in service. Each course has been outlined as a college course having the value of three semester hours of credit. These courses have been prepared by members of the Geography staff in their special fields, with the occasional assistance of others especially fitted to aid in the work. The following courses are now offered:

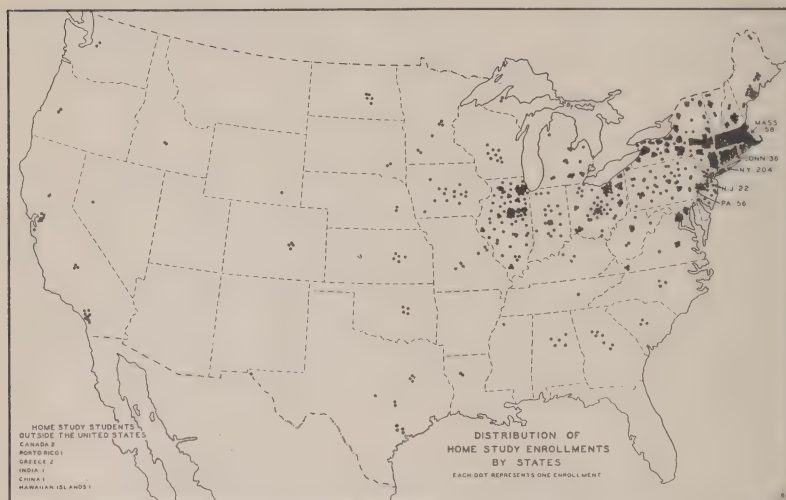
COURSES ON THE TEACHING OF GEOGRAPHY

- The Teaching of Geography in the Elementary School.
- The Teaching of Geography Based on the New York State Syllabus, Grades 3, 4, 5, and 6.
- The Teaching of Home Geography and World as a Whole.
- The Teaching of Third Grade Geography of the New York State Syllabus.
- The Teaching of North America.
- The Teaching of South America, Europe, and Asia.
- The Teaching of Geographic Factors and the United States in Its World Relations.
- Visual Aids in Teaching.

ACADEMIC COURSES IN GEOGRAPHY

- Industrial and Commercial Geography.
- Geography of North America.
- Geography of South America.
- Geography of Europe.
- Home Study Course for European Travel.
- Geography of the Eastern Continents.
- The Physical Geography of the Lands.
- Weather.
- Elements of Climatology.

Climates of the World.  
 Climatology of the United States.  
 Mathematical Geography.  
 Graphics and Cartography.  
 Special Studies in Geography.



DISTRIBUTION OF THE HOME STUDY ENROLLMENTS

Home Study students have been enrolled from 43 states, Porto Rico, Hawaiian Islands, and four foreign countries (see map above). The enrollments for Home Study Courses have been as follows:

<i>Year</i>	<i>Enrollment</i>
1922-23 (5 months)	42
1923-24	98
1924-25	112
1925-26	124
1926-27	84
1927-28	111
1928-29	147
1929-30	130
1930-31 (5 months)	60
Total	908

Of this number 445 enrollments are for the courses in the teaching of geography and 463 for the academic courses.

At the urgent request of Summer School students, the Home Study Department developed a plan whereby museum specimens and illustrated pamphlets might be collected and distributed to schools and teachers at nominal cost. This school service began in September 1928. Since that date the Home Study Department has filled 949 orders for museum specimens and 1,511 orders for illustrated pamphlets, a total of 2,460 orders. This material has been sent to every state in the United States, to Porto Rico, Alaska, Hawaii, the Philippines, and to ten foreign countries. This material has been obtained from more than three hundred sources in the United States and numerous foreign countries.

### EXTENSION COURSES

In the fall of 1926 Extension Courses in Geography were offered for the first time and since then a few courses have been offered in that field each semester. They are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of the courses, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

In *content* those courses which primarily have the needs of the teacher in view, aim to provide up-to-date, exact, and scholarly surveys of subject matter. An effort is made to touch also upon the *aims* and *methods*, and to provide a background for the solution of practical problems of the classroom.

The enrollment in the Geography Extension Courses has been as follows:

Year	Enrollment	
	1st Semester	2nd Semester
1926-27 . . . .	12	20
1927-28 . . . .	99	128
1928-29 . . . .	93	104
1929-30 . . . .	178	117
1930-31 . . . .	95	...

The following courses in Geography have been offered as Extension Courses:

Physical Geography . . . . . Homer P. Little



Climates of the World . . . . .	<i>Clarence E. Koeppe</i>
Climates of the Eastern Hemisphere . . . . .	<i>Clarence E. Koeppe</i>
Regional Geography of North America . . . . .	<i>Clarence F. Jones</i>
Geography of South America . . . . .	<i>Clarence F. Jones</i>
Geography of Eastern and Northern South America . . . . .	<i>Clarence F. Jones</i>
Caribbean America . . . . .	<i>Clarence F. Jones</i>
Europe . . . . .	<i>Samuel Van Valkenburg</i>
Europe after the World War . . . . .	<i>Samuel Van Valkenburg</i>
Europe and Africa . . . . .	<i>Samuel Van Valkenburg</i>
Asia, Australia, and the Malay Peninsula . . . . .	<i>Samuel Van Valkenburg</i>
Geographic Environment . . . . .	<i>W. Elmer Ekblaw</i>
Influences of Geographic Environment . . . . .	<i>W. Elmer Ekblaw</i>
Geographic Influences in American History . . . . .	<i>Clarence F. Jones</i>
Economic Geography . . . . .	<i>Clarence F. Jones</i>
The Teaching of Geography . . . . .	<i>Douglas C. Ridgley</i>
Geographic Bases of Nature Study . . . . .	<i>W. Elmer Ekblaw</i>
Graphics and Cartography . . . . .	<i>Guy H. Burnham</i>
Geography of the British Empire . . . . .	<i>Charles B. Fawcett</i>

## PERIODICAL PUBLICATIONS



## ECONOMIC GEOGRAPHY

The Clark Graduate School of Geography, before half the first decade of its activity was passed, initiated the publication of *ECONOMIC GEOGRAPHY* to promote the special field which that subject covers.

We are living in a highly industrialized world; the relationships between our resources, their wise utilization, and the



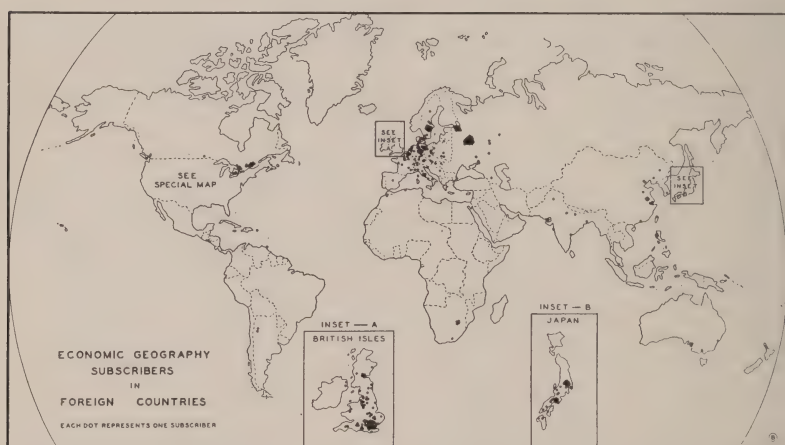
DISTRIBUTION OF ECONOMIC GEOGRAPHY SUBSCRIBERS IN THE UNITED STATES

common weal, are intricate and devious. Man's conquest of Nature seems more nearly complete than ever, yet in ever increasing measure Nature's influences become the decisive factors in limiting the activities of men.

We are vitally concerned with the tillable and arable soils; with the forests, the grasslands, the deserts; with the food and fiber-producing plants, the fisheries, the animal life, both feral and domestic; with the metallic ores, the oils, and the fuels; with water power, and routes of trade and travel. As citizens

of the modern commonwealth we are prepared to act intelligently on the larger problems of national and international economic and social relationships only when we appreciate the possibilities and limitations of the habitable portions of the earth. A study of geography should lead to a better understanding and a more intelligent sympathy between the various peoples of the world.

The need for a full knowledge of the natural resources of the world, and a better understanding of the natural conditions



DISTRIBUTION OF ECONOMIC GEOGRAPHY SUBSCRIBERS IN FOREIGN COUNTRIES

to which man must the more carefully adapt himself as population increases and the burden upon the land is made heavier, has only recently made itself felt; it is from this need that the new interest in economic geography has sprung. To help satisfy this need Clark University publishes *ECONOMIC GEOGRAPHY* in the hope that it proves useful and valuable to all who are engaged in the promotion of industries and trade; to all interested in geography or economics or sociology; to the many students of national and international affairs; and to all who wish to have a part in the intelligent utilization of the world's resources.

*Agricultural Regions of the World*, the most important series of articles published in *ECONOMIC GEOGRAPHY*, will



appear as a two-volume monograph on the subject as soon as the series is completed. Volume I will include "The Agricultural Regions of North America" by Dr. Oliver E. Baker, a former member of the staff of the Clark Graduate School of Geography, and now Senior Economist in the United States Department of Agriculture; and "The Agricultural Regions of South America" by Dr. Clarence F. Jones, Professor of Economic Geography of the Clark Graduate School of Geography. Volume II will include "The Agricultural Regions of Europe" by Dr. Olof Jonasson, who received his Ph.D. degree at Clark in 1926, and is now *Docent* in Economic Geography at the High School of Commerce in Stockholm; "The Agricultural Regions of Asia" by Dr. Samuel Van Valkenburg, on the staff of the Clark Graduate School of Geography in 1927-29, and now Professor of Geography at the College of the City of Detroit; "The Agricultural Regions of Australia" by Griffith Taylor, who gave a special series of lectures on Australia, and Human Geography at Clark in 1929, and is now Professor of Geography at the University of Chicago; and "The Agricultural Regions of Africa" by Dr. Homer P. Shantz, formerly special lecturer on Plant Geography on the staff of the Clark Graduate School of Geography, and now President of the University of Arizona.

In connection with this important series, excellent large-size colored maps of the regions have appeared for each continent, with an additional colored map for Europe devoted to land utilization there. The series and the maps constitute the most authoritative and comprehensive source material available for the study of agricultural geography.

#### BULLETIN OF THE AMERICAN METEOROLOGICAL SOCIETY

The BULLETIN of the American Meteorological Society, published ten times yearly by the Society, has been edited at Clark University since the opening of the School of Geography, with the exception of 1926 and January to May, 1927, when Dr. B. M. Varney, Clark, Ph.D. 1925, held the editorship. During the entire ten years the headquarters of the Society

and the publication office of the BULLETIN have remained at Clark. The world-wide exchanges of the BULLETIN are deposited by the American Meteorological Society in the Library of Clark University.

The BULLETIN of the American Meteorological Society is a semi-popular journal which is for the purpose of carrying out the aims of the Society insofar as this may be done through the medium of a publication. These aims are:

The advancement and diffusion of knowledge of meteorology, including climatology, and the development of its application to public health, agriculture, engineering, transportation by land and inland waterways, navigation of the air and oceans, and other forms of industry and commerce.

Any person, corporation or other organization interested in these aims may be elected to membership. The organization of the Society took place in affiliation with the American Association for the Advancement of Science at St. Louis, Missouri, December 29, 1919, and its incorporation at Washington, D. C., January 21, 1920. The work of the Society is carried on by the BULLETIN, by papers and discussions at meetings of the Society, and by correspondence. There is close co-operation between the Society and the official weather services of the Americas.

Clark University has figured largely in the progress of the Society, for, through the BULLETIN, its medium of publication, articles, discussions, and notes written at Clark, not only by the editor but by the generations of students here have received nation-wide and world-wide distribution.

#### HOME GEOGRAPHIC MONTHLY

The Home Geographic Society was organized and incorporated as an educational institution under the laws of the Commonwealth of Massachusetts, by Dr. W. Elmer Ekblaw and Dr. Douglas C. Ridgley of Clark University; Dr. Henry Fairfield Osborn, President of the American Museum of Natural History; Dr. Payson Smith, Commissioner of Education in Massachusetts; Dr. Lorado Taft, Sculptor; Dr. Augustus O.

Thomas, President of the World Federation of Education Associations; Dr. Kirtley F. Mather, Professor of Geology, Harvard University; Dr. W. C. Bagley, Professor of Education, Columbia University; and Mr. Paul Amundson of Boston. Membership in the Society is open to everybody, but it is planned primarily for children.

The purposes of the Society as set forth in the preamble of the Constitution are as follows:

To create and promote interest in geography among children; to promote friendly and sympathetic relations among the children of the world; to assemble and distribute geographic materials, slides, films, specimens, pictures and books, relating to geographic subjects for home and school purposes; to publish a magazine for the diffusion of geographic knowledge among children; to establish an institute for the development and promotion of geography and related sciences; and to perform such other duties and services as may aid children to visualize the world and understand its peoples.

The Society publishes a magazine, *THE HOME GEOGRAPHIC MONTHLY*, written and illustrated particularly for children. It comprises forty-eight pages of text and pictures. The articles are published in eight series continuing throughout the year, one article in each series in every number. The series appearing the first year illustrate the character of the reading matter: Methods of Transportation; Distinctive Peoples; Interesting Lands; Economic Trees; Furbearing Animals; Typical Cities, Characteristic Land Forms; and Climatic Phenomena.



## GIFTS TO THE SCHOOL OF GEOGRAPHY

### *William Libbey Library*

The most notable gift to the Clark School of Geography during the first ten years of its history is the library of the late Professor William Libbey. It was presented to Clark University by his widow, Mary E. Libbey.

The library consists of about 8,000 bound volumes and 1400 pamphlets and several hundred maps. An original map prepared by von Humboldt is in the collection. The library is preeminently valuable for research in geography. Professor Libbey took great pains and pride in acquiring complete sets, beginning with Volume I, Number 1, of the geographic periodicals published in Europe and in this country.

Dr. Libbey had also at very great expense prepared a card catalogue of geographic literature significant to those who are carrying on geographic research. This catalogue was also presented to the University. In addition a collection of about 14,000 lantern slides was included in the gift and is now held as a part of the Libbey Library. Mrs. Libbey also presented a large collection of Indian baskets secured by Dr. Libbey in his many travels and a number of instruments formerly used in surveying or in oceanographic investigations.

A portrait of Professor Libbey was presented by Mrs. Libbey, and this now hangs in the room set aside for the William Libbey Library.

### *The William Libbey Fellowship*

In June, 1930, Mrs. Libbey provided the sum of \$500.00 which, in accordance with her wishes, was awarded as a William Libbey Fellowship. The award was made on the recommendation of the staff in geography to Mr. George B. Cressey, a candidate for the degree of Doctor of Philosophy in Geography.





A CORNER IN THE WILLIAM LIBBEY LIBRARY

*The William Libbey Memorial Fund*

In the spring of 1931 Mrs. Libbey presented to the University a fund of \$6,000 with which to establish the William Libbey Memorial Fund, with the provision that the income from that fund may be used at the discretion of the staff in the Graduate School of Geography to help graduate students in the pursuit of their work or a member of the staff in carrying out research studies. The income may be used to publish the results of research work in geography or for any other purpose which will promote the scientific work of the School of Geography, providing that work has the approval of the staff.

*Relief Map of the Presidential Range in the White Mountains*

The School of Geography has received from Mr. and Mrs. W. Gray Harris a relief map of the section of the White Mountains of New Hampshire known as the Presidential Range. The map was made by Ellsworth W. Bushnell.

*Library Globe*

Mrs. Alice H. Pritchard of Worcester presented to the School of Geography a large beautifully mounted library globe.

*Economic Geography*

The founding of Economic Geography and the financing of that project during the first five years was made possible through the generosity of Dr. Charles H. Thurber and Dr. Wallace W. Atwood.



## ALUMNI RECORDS





## MASTERS OF ARTS FROM SCHOOL OF GEOGRAPHY

### 1922

ANDREW, PAUL E.  
BURNHAM, GUY H.  
DONNELLY, EVERETT C.  
RUSSELL, EDWARD D.

### 1923

JACKSON, ERIC P. (*deceased*)  
LAFLEUR, ALBERT  
RUSSELL, J. FRANCIS  
SHANK, MARJORIE M.  
SHIPMAN, JULIA M.

### 1924

CAMMETT, STUART H.  
HOWE, GEORGE F.  
KNIGHT, ELLA B.  
ROBERTSON, INA C.  
RUSSELL, H. HARRISON

### 1925

ATWOOD, ROLLIN S.  
GIRARD, LILLIAN  
MASON, CAROL Y.  
POST, CLARENCE  
SAUNDERS, RICHARD M.  
SWETT PHELPS N.  
THOMAS, KATHERYNE C.

### 1926

BAUGH, RUTH E.  
BROOKS, MRS. ERON B. (DOROTHY  
V. NOBLE)  
BURRILL, MEREDITH F.  
KELLER, DONALD  
MARTIN, MRS. MAUDE C.  
MILSTEAD, HARLEY P.  
PACKARD, LEONARD

### 1927

ATWOOD, WALLACE R.  
BARNES, CARLETON P.  
COLE, MRS. RUTH L. (RUTH  
LAIDLAW)  
CRANE, MRS. CHARLES B.  
(EDITH L. HORN)  
FORSYTHE, MARION B.  
GOOZE, CHARLES

GUEFFROY, EDNA M.  
HART, MRS. ISABELLE K.  
HUNT, THOMAS F.  
KOEPE, CLARENCE E.  
PAGE, JOHN L.  
RIPLEY, MABEL  
SCHWENDEMAN, JOSEPH R.  
WEBER, J. HENRY

### 1928

ADDICOTT, HAROLD B.  
CUNNINGHAM, FLOYD F.  
HANRATTA, ANNA  
HOLZHAUER, CARL F.  
HOYT, EDITH E.  
HUANG, YU-JUNG  
LEE, HARRIET E.  
MITCHELL, MAY ADELPHIA  
RUCKER, ROBERT W.  
SCHLESSELMAN, GEORGE W.

### 1929

AVERY, MRS. EULA V.  
FITTON, EDITH M.  
GLASGOW, JAMES  
HUFFINGTON, PAUL  
KELLER, LOIS R.  
MEANS, MARGARET  
MCDAVITT, NEVA

### 1930

CLARKE, KATHARINE B.  
ERICKSON, FRANKLIN C.  
GREGORY, ELIZABETH E.  
HUTTER, HARRY K.  
MCQUEENY, THERESA F.  
SCHNEIDER, LEONARD R.  
SPENCE, VINA E.  
WEST, ANTHONY J.  
ZELLER, ROSE

### 1931

BOTTS, ADELBERT K.  
CORFIELD, GEORGE S.  
GRAHAM, GUILBERT R.  
LIU, EN-LAN  
PITKIN, VICTOR E.  
TALIAFERRO, REBECCA M.

## DOCTORS OF PHILOSOPHY FROM SCHOOL OF GEOGRAPHY

1922

CLUNE, MARY C.

1923

BRANOM, FRED KENNETH  
JAMES, PRESTON E.  
SWITZER, J. ELMER

1925

BUZZARD, ROBERT GUY  
McCONNELL, WALLACE R.  
RIDGLEY, DOUGLAS C.  
VARNEY, BURTON M.  
WHITE, C. LANGDON

1926

CASTO, E. RAY  
EKBLAW, W. ELMER  
JONASSON, OLOF G.  
RUSSELL, H. HARRISON  
VAN CLEEF, EUGENE

1927

BENGTSON, NELS A.  
COOPER, CLYDE E.  
RICHARDS, GRAGG

1928

ATWOOD, ROLLIN S.  
SHIPMAN, JULIA M.  
VAN ROYEN, WILLEM

1929

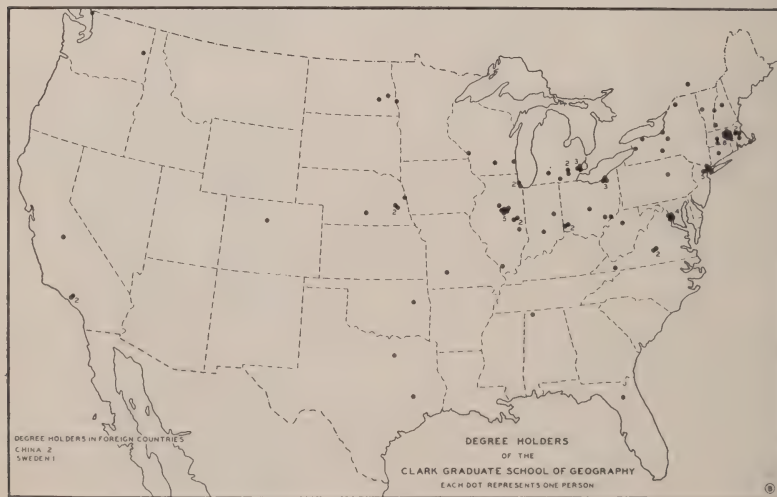
BARNES, CARLETON P.  
BAUGH, RUTH E.  
FREEMAN, OTIS W.  
GOOZE, CHARLES  
KOEPE, CLARENCE E.  
LAFLEUR, ALBERT  
PAGE, JOHN L.  
PRATOR, MOINA (*deceased*)

1930

ATWOOD, WALLACE R.  
BURGY, J. HERBERT  
BURRILL, MEREDITH F.  
CUNNINGHAM, FLOYD F.  
HUDGINS, BERT

1931

CAMPBELL, EDNA FAY  
CRESSY, GEORGE B.  
DIETRICH, SIGISMOND R.  
FOSCUE, EDWIN J.



DISTRIBUTION OF THE ALUMNI OF THE SCHOOL OF GEOGRAPHY

ADDICOTT, HAROLD BROWN, Head of Geography Department, Mayville State Teachers College, Mayville, North Dakota.

A.B. in Commerce, Ohio University, 1924; A.M. Clark University, 1928; Instructor in Geography at Marshall College; Instructor in Geography and Mathematics, Gallia Academy, Gallipolis, Ohio.

ANDREW, PAUL EDWARD, Superintendent of Schools, Clovis, California.

B.S. Drury, 1911; B.Ed. S. W. Missouri Teachers College, 1918; A.M. Clark University, 1922; Study, Summer School University of Colorado; Summer School University of Southern California.

ATWOOD, ROLLIN SALISBURY, Associate Professor Economic Geography, Assistant Dean College of Commerce and Journalism, Acting Director, Institute of Inter-American Affairs, University of Florida, Gainesville, Florida.

B.S. University of Chicago, 1924; A.M. Clark University, 1925; Graduate study, University of Manchester, England, 1926-27; Ph.D. Clark University, 1928; Teacher of Geography and Mathematics, Junior High School, Trenton, New Jersey, 1925; Professor of Geography, Bucknell University (Summer) 1926 and 1928; Assistant Professor Economic Geography, University of Florida, 1928-1929; Professor of Geography, Clark University (Summer) 1929.

American Geographical Society; Pan American Society.

Two summers in Southern Rocky Mountains; one summer in Navajo Indian Reservation; one year in England; one summer through countries of Europe; tour of western United States visiting National Parks.

*Localization of Cotton Industry in Lancashire, England*, Econ. Geog., 1928, 4: 187-196, and University of Florida Press, 1930.

Research in hand: Natural Resources of Florida, and the development of a research program for the Institute of Inter-American Affairs.

ATWOOD, WALLACE RICHARDS, Assistant Chief of the Branch of Research and Education, National Park Service, Washington, D. C.

B.S. University of Chicago, 1926; A.M. Clark University, 1927; University of Zurich, Switzerland, 1928-29 (exchange student); University of Paris, France, 1929-30 (special scholar); Ph.D. Clark University, 1930.

Sigma Xi; Kappa Epsilon Pi (honor geologic society).

Field studies in Rocky Mountains; glacial features of the Sudbury region, Massachusetts; physiographic studies in the Central Massif of France; travelled throughout Europe and much of northern Africa; reconnaissance physiographic studies in Algeria; tour of western United States visiting twelve National Parks.

*Gunnison Tillite of Eocene Age*, Jour. of Geol., 1926, 34: 612-622; *Traces d'une Glaciation Ancienne dans les Cevennes*, in process of publication in the Annales de Geographie, 1930.

Research in hand: Correlation of mid-tertiary peneplains in France; mid-tertiary glaciation in United States and Europe; physiographic projects within the National Parks.

EVERY, MRS. EULA V., Social Studies in Tappan Junior High School, Ann Arbor, Michigan.

A.B. University of Michigan, 1925; A.M. Clark University, 1929; teacher, grades in Ann Arbor.

BARNES, CARLETON P., Assistant Agricultural Economist, Department of Agriculture, Washington, D. C.

B.S. New York State College of Forestry, 1926; A.M. Clark University, 1927; Ph.D., 1929; Recreational Engineer Central New York State Parks Commission. *Land Resource Inventory in Michigan*, Econ. Geog., 1929, 5: 22-36.

Research in hand: Classification of United States into Physical Agricultural Areas. Determination of sub-marginal agricultural areas in New York.

BAUGH, RUTH EMILY, Assistant Professor, Department of Geography, University of California at Los Angeles, Los Angeles, California.

A.B. University of California (Berkeley), 1921; A.M. Clark University, 1926; Ph.D., 1929.

American Association for the Advancement of Science; American Meteorological Society.

Research in hand: An analysis of the location and distribution of population in the state of California.

BENGTSON, NELS AUGUST, Professor of Geography, Chairman of the Department, University of Nebraska, Lincoln, Nebraska.

A.B. University of Nebraska, 1907; A.M. 1908; Graduate study, University of Nebraska, 1909-1911; Ph.D. Clark University, 1927; Trade Commissioner to Norway, U. S. Department of Commerce; Breadstuffs Expert, U. S. War Trade Board; Collaborator, U. S. Bureau of Soils; Consulting Geologist in Central America, Ecuador, Venezuela, and England; Lecturer in Geography, Cornell University, University of Virginia, University of Wisconsin, Columbia University.

Sigma Xi; Association of American Geographers; Phi Delta Kappa; Sigma Gamma Epsilon; Nebraska Writers Guild; Association for the Advancement of Science.

Europe, 1919, 1926; Central America, 1920; Ecuador and Peru, Panama, 1922; Venezuela, 1927. Extensive field work in the Great Plains.

*Meanders of the Missouri River*. Reports of State Board of Agriculture, 1908.

*The Rural Survey*. Reports of the State Board of Agriculture, 1912.

*Physical Geography Manual*. The W. W. Welch Co., Chicago, 1913. (Eight new editions of this book have been published.)

*The Influence of the Transcontinental Highways of the United States on the Price of Wheat*. School Sci. and Math., June, 1915.

*The Wheat Industry*. Co-author with Griffith. Macmillan Co., N. Y., 1915.

*The Pennsylvania Formations of Southeast Nebraska*. Co-author with Condra. Neb. Acad. of Sci., 1915.

*Soil Survey of Gage County, Nebraska*. Co-author with Myers. U. S. Bur. of Soils.

*Geography of Nebraska*. Supplement to Brigham and McFarland Geographies. Amer. Book Co., N. Y., 1916.

*Soil Survey of Fillmore County, Nebraska*. Co-author with Myers. U. S. Bur. of Soils.

*The Lander Road to Yellowstone Park*. Motor Highway, Feb., 1918.

*Increasing the Use of Sugar in Norway*. U. S. Dept. of Comm., Report No. 129, 1919.

*Tariff Revenue of Christiania, Norway*. U. S. Dept. of Comm., Report No. 129, 1919.

*Market for American Tractors in Norway*. U. S. Dept. of Comm., Report No. 128, 1919.



*Economic and Industrial Conditions in Norway.* U. S. Dept. of Comm., Report No. 157, 1919.

*Economic Conditions in Norway.* U. S. Dept. of Comm., Report No. 172, 1919.

*The Sulphur Trade of Norway.* U. S. Dept. of Comm., Report No. 174, 1919.

*New Norwegian Line to North and South America.* U. S. Dept. of Comm., Report No. 213, 1919.

*Norwegian Agricultural Crops.* U. S. Dept. of Comm., Report No. 216, 1919.

*Norwegian Merchant Marine Tonnage.* U. S. Dept. of Comm., Report No. 277, 1919.

*Norway as a Market for Soaps.* U. S. Dept. of Comm., Report No. 263, 1919.

*Norway, A Commercial and Industrial Handbook.* Bur. of For. and Dom. Comm., Special Agents Series, No. 196, 1920.

*Honduras.* A confidential report on the geography and geology, with special reference to the petroleum possibilities, submitted to the Gypsy Oil Co. and to the South American Gulf Oil Co., 300 pp.

*Ecuador.* A confidential report on the geography and geology of the Santa Elena Peninsula, with special reference to the petroleum possibilities, submitted to the South American Gulf Oil Co., 1922, 182 pp., maps.

*Some Essential Features of the Geography of the Santa Elena Peninsula, Ecuador,* Annals Assoc. of Amer. Geog., 1924, 14: 150-159.

*The Resources of Honduras.* Jour. of Geog., 1925, 24: 125-239.

*The Economic Geography of Norway.* Jour. of Geog., 1925, 24: 243-269.

*Pupils Workbook on the Geography of Nebraska.* Ginn and Co., Boston, 1925.

*Notes on the Physiography of Honduras.* Geog. Rev., 1926, 16: 403-414.

*Geography and Geology of the Maricao Basin, Venezuela.* A confidential report with special reference to petroleum development, prepared for the Carib Syndicate, 120 Broadway, N. Y. C., 1928, 528 pp.

*The Climate Record of Honduras.* Mo. Weather Rev., Mar., 1929, 57: 85-90

*Normal Training Course of Study in the Geography of Nebraska.* State Dept. of Public Instruction, Lincoln, Neb., 1929, Bull. C.

*High School Geography—To Be or Not To Be.* School Sci. and Math., Oct., 1929.

*Significant Geographic Aspects of the Exploratory Period in the History of Central America.* Jour. of Geog. Soc. of Phila., 1930, Vol. 28.

Research in hand: Permian in Nebraska, Climatic Studies of Nebraska, Economic Geography of Honduras.

BOTTS, ADELBERT K., Instructor in Geography, Miami University, Oxford, Ohio.

A.B. in Education, State Teachers College, Valley City, North Dakota, 1926; A.M. Clark University, 1931; Geography Teacher and Principal, Litchfield, Minnesota, 1927-29; Geography Teacher, Junior High School, Albert Lea, Minnesota, 1929-30; Geography Teacher, State Teachers College, Valley City, North Dakota, Summers 1926, 29, 30, and 31.

*The Rainfall of El Salvador,* Mo. Weather Rev., 1930, 58: 459-466.

BRANOM, FRED KENNETH, Head of Geography Department, Chicago Normal College, Chicago, Illinois.

B.Ed., Illinois State Normal School, 1915; M.S. University of Chicago, 1916; Ph.D. Clark University, 1923.

Sigma Xi; National Council of Geography Teachers; National Geographic Society; National Educational Association.

A Manual on the Use of Maps; A Manual on the Use of Globes; A Workbook



in the Geography of Illinois; A Bibliography of Recent Literature in the Teaching of Geography; co-author of *The Teaching of Geography*, 1921, Ginn and Co., Boston, Mass.; *Some Geographic Factors in the Development of Chicago*, Jour. of Geog., 1921, 20: 176-183; *The Fishing Industry at Boston*, Jour. of Geog., 1924, 23: 195-200; *The Scandinavian Peninsula*, Jour. of Geog., 1925, 24: 52-66; co-author of *The Social Series of Geographies*, 1928, William Sadlier, New York.

Research in hand: A bibliography of materials for teachers; Study Tests in Geography.

BROOKS, MRS. E. BENNET (Noble, Dorothy Vernon), 3820 Waldo Ave., New York, New York.

A.B. University of Illinois, 1924; A.M. Clark University, 1926; Assistant Professor Geography, Mount Holyoke College, 1926-30.

*College Geography and the Laboratory*, Jour. of Geog., 1929, 28: 258-262.



DRAFTING ALCOVE IN GEOGRAPHY WORKROOM

BURGY, J. HERBERT, Associate in Geology (Geography), University of Illinois, Urbana, Illinois.

A.B. University of Wisconsin, 1920; A.M. 1925; Ph.D. Clark University, 1930; Instructor, Culver Military Academy, Culver, Indiana; Head of Geography Department, State Teachers College, Moorhead, Minnesota.

Three months field work in various parts of New England studying cotton textile industry.

BURNHAM, GUY H., Cartographer, Clark University, Worcester, Mass.

A.B. Clark University, 1916; A.M. 1922; U. S. Army School, Washington Barracks, 1918; Graduate study, University of Chicago, Summer Quarter, 1924.

Member Clark Scholarship Society; Society of American Military Engineers (map organization).

*Railway Transportation in South America*, Bull. Pan Amer. Union, Dec. 1922; *Economic Effects of New England's Ice Storm*, Jour. of Geog., 1922, 21: 161-169; *The Weather Element in Railroadings*, Mo. Weather Rev., Jan., 1922, 50: 1-7; Several articles on Early American Cartographers such as Blunt, Erskine, Evans, etc., in Dictionary of American Biography.

BURRILL, MEREDITH FREDERIC, Research Advisor, Social Research Council, McGill University, Montreal, Canada. Now on leave from School of Commerce, Oklahoma A. & M. College.

A.B. Bates College, 1925; A.M. Clark University, 1926, Ph.D., 1930; Instructor, Physiography, Lehigh University; Geography Department, Worcester State Normal School.

American Association for the Advancement of Science; American Meteorological Society; American Geographical Society; National Council of Geography Teachers; Pennsylvania Academy of Science.

*Forecasting Afternoon Humidity with Special Reference to Forest Fire Weather of New England*, Bull. Amer. Meteorology Soc., 1926, 7: 73-74.

Research in hand: Industrial survey of Montreal and vicinity for McGill University and the City of Montreal.

BUZZARD, ROBERT GUY, Professor of Geography, Illinois State Normal University, Normal, Illinois.

B.S., University of Chicago, 1916; M.S., 1917; Graduate study six additional quarters, University of Chicago, 1920-21; Ph.D. Clark University, 1925; Teacher of Geography, Harvard School for Boys, Chicago, 1914-16; Professor of Geography, Northern Illinois State Teachers College, DeKalb, 1919-20, 1921-22.

Sigma Xi; Kappa Delta Pi; Illinois Academy of Science; National Council of Geography Teachers.

Directed field studies in geography, Illinois, 1926; Eastern United States, 1927-31.

CAMPBELL, EDNA FAY, 840 Roscoe St., Chicago, Illinois.

A.B. University of Chicago, 1902; Graduate of Chicago Teachers College, 1912; M.S. University of Chicago, 1916; Ph.D. Clark University, 1931; Head of Geography Department, Wendell Phillips High School; Lake View High School, Chicago, Illinois.

A.B. and A.M. with honors; Sigma Xi; Chicago Geographic Society; American Geographical Society.

Field studies at Chicago and New Orleans. Travelled in every state in the United States except Maine, New Hampshire and Vermont. Travel through western and central Europe.

*Our City—Chicago* (with F. R. Smith and C. F. Jones), Scribner's Sons Publisher, 1930, 431 pp.; *The Making of Graphs and Charts*, Wheeler Publishing Co.; *New Orleans in Early Days*, Geog. Rev., 1920, 10: pp. 31-36; *The Port of New Orleans*, Jour. of Geog., 1921, 20: 337-350; *New Orleans at the Time of the Louisiana Purchase*, Geog. Rev., 1921, 11: pp. 414-425; *Chicago, Daughter of the Great Lakes*, Home Geog. Monthly, 1931, 1: 26-32; *Tales of Gold*, Scribner's Sons, Publisher (in press).

CAMMETT, STUART H., House Principal, Southeastern High School, Detroit, Michigan.

Ph.B. Denison University, 1922; A.M. Clark University, 1924; Graduate study in Education, University of Minnesota; Teacher, Geography, Physical and Commercial, Detroit Central High School; Instructor, Physical and Economic Geography, College of the City of Detroit.

CASTO, EARLE RAY, Professor of Geography and Geology, Emory and Henry College, Emory, Virginia.

B.S. West Virginia Wesleyan College, 1911; M.S. 1913; A.M. George Peabody College for Teachers, 1918; Ph.D. Clark University, 1926; District Superin-

tendent of Schools, Thomas, West Virginia; Professor, Geography, Martha Washington College, Abingdon, Virginia; Professor, Geography (summer session), Winthrop College, Rock Hill, South Carolina and Asheville Summer School, Asheville, North Carolina.

B.S. Magna Cum Laude; Tau Kappa Alpha; Alpha Psi Omega; American Association for the Advancement of Science; National Council of Geography Teachers; American Meteorological Society; Virginia Academy of Science.

Directed field studies in Southern Appalachians.

*Climatology of the Virginias*, Mo. Weather Rev., 1930, 58: 374-375; Laboratory Exercises in Mineralogy and Petrology.

Research in hand: Geography of Common Things, Climate of Southern Appalachians.

CLARKE, KATHARINE B., Meteorologist, Department of Terrestrial Magnetism, Carnegie Institution of Washington.

B.S. Northwestern University, 1926; Graduate study, Northwestern University, 1929; A.M. Clark University, 1930; Teacher, Saginaw Public Schools, Saginaw, Michigan.

CLUNE, MARY C., Head of Social Studies Department, Technical High School, Springfield, Massachusetts.

B.S. Columbia University, 1912; A.M. Smith College, 1917; Ph.D. Clark University, 1922; Instructor, History and Geography, Technical High School; Instructor, New York University Summer School, 1924 to 1929.

Association of American Geographers; National Council of Geography Teachers; New England History Teachers Association; National Council for Social Studies.

Field studies of the Connecticut Valley; travel one summer in British Isles; one summer in France and Italy; three summers in Canada.

*Joseph Hawley Criticism of Massachusetts Constitution of 1780*, Smith College Studies, 1917; Article on Joseph Hawley, National Dictionary of Biography, 1930.

Research in hand: The birthplace of the first American gas-engine vehicle.

COLE, MRS. A. L. (LAIDLAW, RUTH), 714 S. Morton Avenue, Okmulgee, Oklahoma.

B.Ed. Western Illinois State Teachers College, 1925; A.M. Clark University, 1927; Teacher, grade work Carthage, Illinois, 1910-16; Monmouth, Illinois, 1916-18; San Antonio, Texas, 1918-20; Kansas City, Missouri, 1920-22; Toledo, Ohio, 1922-23, 1924-25; Supervisor Fourth Grade, Maryland State Teachers College, Towson, Maryland, 1925-26; Senior College Geography, Western Illinois State Teachers College, two summer terms 1927.

Kappa Delta Pi; The National Geographic Society.

Field study—Urban Community of Roanoke, Virginia; Inland Voyage, Seattle to Skagway, Alaska, Summer 1926.

COOPER, CLYDE EDWARDS, Professor of Geography and Geology and Head of Department, Ohio University, Athens, Ohio.

A.B. University of Michigan, 1916; M.S. 1917; Graduate study, University of Chicago, 1922; Ph.D. Clark University, 1927; Professor, Geography, State Teachers College, Cheney, Washington; Professor, Geography, and Head of Department, Illinois State Normal University, Normal, Illinois.

Board of Directors, National Council of Geography Teachers.



Spent three and a half years in making a trip around the world and teaching in the Philippines.

*Magnesite Industry of Stevens County, Washington*, Jour. of Geog., 1917, 16: 342-343; *Status of Geography in the Normal Schools of the Far West*, Jour. of Geog., 1919, 18: 300-305; *Status of Geography in the Normal Schools of the Middle States*, Jour. of Geog., 1920, 19: 211-222; *Status of Geography in the Normal Schools of Eastern United States*, Jour. of Geog., 1921, 20: 217-224; *Geography of Washington*, MacMillan & Co., 1920; *The World Neighborhood—a Geography for Junior High School*, publisher not yet decided.

Research in hand: Geography of Ohio; Geography for Senior High Schools; Methods Book in Geography.

CORFIELD, GEORGE SIBLEY, Student in School of Geography, Clark University.

B.Ed. Clark University, 1930; A.M., 1931; Director of Elementary Education, Elmira Heights, New York.

American Geographical Society, National Council of Geography Teachers. Summer 1927, Canadian Field Trip; summer 1929, Maritime Provinces; summer 1930, West Indies and Northern South America.

*Visual Aids in Teaching*, co-author with D. C. Ridgley, E. C. Belknap. Home Study Course, Clark University, 1930.

Research in hand: Aruba: A Study of Human Adjustment to a Tropical Island Arid Environment.

CRANE, MRS. CHARLES B. (HORNE, EDITH L.), 6949 Oglesby Avenue, Chicago, Illinois.

A.B. Vassar College, 1925; A.M. Clark University, 1927; Graduate study, Marine Biological Laboratory, Woods Hole, Summer, 1925; Assistant Curator Nantucket Maria Mitchell Association; Assistant, Botany, Vassar College.

A.B. honorable mention.

CRESSEY, GEORGE BABCOCK, Professor and Head of the Geology and Geography Department, Syracuse University, Syracuse, New York.

B.S. Denison University, 1919; M.S. University of Chicago, 1921; Graduate study Yale University, 1921-22; Ph.D. University of Chicago, 1923; Graduate study Harvard University, 1929-30; Ph.D. Clark University, 1931; Professor, Geology, Shanghai College, China, 1923-29; Visiting Professor, Harvard University Summer School, 1931, 32.

Sigma Xi; Royal Geographical Society; American Geographical Society; Geological Society of China; Royal Asiatic Society; American Association for the Advancement of Science; Explorers Club.

Extensive travel in Europe and Asia. Geological and geographical studies in China and Mongolia.

*Studies in the Sand Dunes of Northwestern Indiana*, University of Chicago Press, Chicago, 1921.

*Notes on the Sand Dunes of Northwestern Indiana*, Jour. of Geol., 1922, 30: 248-251.

*The Indiana Sand Dunes and Shore Lines of the Lake Michigan Basin*, University of Chicago Press, Chicago, 1928.

*The Geology of Shanghai*, China Jour., 1928, 8: 334-345; 1928, 9: 89-98.

*How Old Is Mother Earth*, China Jour., 1928, 9: 144-151.

*The Geography of China* (third preliminary edition), Shanghai College, Shanghai, 1928.

*The Meaning of Geology*, Voice Quarterly, 1928, 18: 34-39.

*Manchuria, China's New North*, Voice Quarterly, 1928, 17: 28-31.

*The New Map of China*, Geog. Rev., 1930, 20: 652-656.

*The Geographic Regions of China*, Annals, American Acad. of Pol. and Soc. Sci., 1930, 152: 1-9.

*Chinese Colonization in Mongolia*, Amer. Geog. Soc., New York, in volume entitled "Pioneer Regions of the World," (in press).

*The Chinese of Celestial Cathay*, Home Geographic Monthly, 1931, 1: 8-14.

*Glaciation on the Roof of the World*, Geog. Rev., January 1931.

*The Geography of China* (500 pages), The Commercial Press, Shanghai (in press).

Research in hand: Special geographic problems in the Far East; The loess of China, The Ordos Desert of Inner Mongolia.

CUNNINGHAM, FLOYD F., Professor of Geography and Head of the Department, State Teachers College, Florence, Alabama.

B.Ed. Illinois State Normal University, 1926; Graduate study, University of Chicago, Summer 1927; A.M. Clark University, 1928, Ph.D., 1930; Principal, Emerson School, Berwyn, Illinois.

Board of Directors, National Council of Geography Teachers; American Geographical Society; American Association for the Advancement of Science; Ecological Society of America.

Served with the United States Shipping Board in Canada and Europe, 1919.

Laboratory Manual in the Geography of North America for College Students (publication.)

DIETRICH, SIGISMOND DE RÜDESHEIM, Student, Clark University.

Diploma, Economic Faculty, University of Budapest, Hungary, 1928; Ph.D. Clark University, 1931; Social Service Work, Department of Child Welfare, Budapest, Hungary, 1926-28.

Royal Hungarian Geographical Society; American Geographical Society; American Academy of Political and Social Science.

Extensive travel through all eastern and central European countries (except Russia and Greece), Italy.

DONNELLY, EVERETT C., Teacher, High School, Leominster, Massachusetts.

A.B. Holy Cross College, Worcester, Massachusetts, 1921; A.M. Clark University, 1922.

*Human Comfort as a Basis for Classifying Weather*, Mo. Weather Rev., 1925, 53: 425-426.

EKBLAW, W. ELMER (see page 57).

ERICKSON, FRANKLIN CARL, Instructor in Geography, Dartmouth College, Hanover, New Hampshire.

A.B. Clark University, 1928; A.M., 1930.

FITTON, EDITH M., Research Assistant to Dr. O. E. Baker, U. S. Bureau of Agricultural Economics, Washington, D. C.

A.B. Smith College, 1924; A.M. Clark University, 1929; Secretary Scripps Foundation for Research in Population Problems, Oxford, Ohio; Research Assistant to Dr. Charles F. Brooks, Clark University.

Travel western part of United States by automobile. European travel for eight months.

*The Climates of Alaska*, Mo. Weather Rev., 1930, 58: 85-103; *Weekly Succes-*



*sion of Gulf Stream Temperatures in the Straits of Florida* (with C. F. Brooks), Mo. Weather Rev., 1930, 58: 273-280, and Bull. Amer. Meteorology Soc., 1930, 11: 161-162. *Soil Temperatures of the United States* (with C. F. Brooks), Mo. Weather Rev., 1931, 59: 6-16.

FORSYTHE, MARION B., Supervisor of Geography, State Normal School, Potsdam, New York.

B.Ed. Clark University, 1927; A.M., 1927.

Clark University European Field Trip, 1927.

Co-author with Dr. D. C. Ridgley in geography reference workbooks: Home Geography, New York State and North America; South America; Europe, Asia, and Africa; and Ohio and North America. Collaborator with Dr. W. W. Atwood and Helen Goss Thomas in *Our State and Continent*.

FOSCUE, EDWIN JAY, Associate Professor of Geography, Southern Methodist University, Dallas, Texas.

A.B. Southern Methodist University, 1922; M.S. University of Chicago, 1925; Graduate study, Clark University 1926-27; Ph.D. Clark University, 1931; Instructor and Assistant Professor, Southern Methodist University.

Alpha Kappa Psi; Honorary (national), Economics and Business Fraternity; Sigma Xi; American Geographical Society.

Field studies—Door County, Wisconsin, 1923; Mesilla Valley, New Mexico, 1924 and 1929; Connecticut Valley, 1930; Lower Rio Grande Valley of Texas, 1930-31. Travel—extensively in the United States and Canada, some in northern Mexico, and two trips to Cuba, Panama, Honduras, and Guatemala.

*Destructive Effects of a Hail Storm*, Jour. of Geog., 1927, 26: 81-86; with Albert LaFleur, *Agricultural Production in China*, Econ. Geog., 1927, 3: 297-308; *Rainfall Maps of Cuba*, Mo. Weather Rev., 1928, 56: 170-173; *An Unusual Snowstorm in Texas*, Mo. Weather Rev., 1930, 58: pp. 108-112; *The Mesilla Valley of New Mexico*, Econ. Geog., 1931, 7: 1-27; with Langdon White, *The Iron and Steel Industry of Sparrows Point, Maryland*, Geog. Rev., 1931, 21: 244-258.

Research in hand: The Agricultural Geography of the Lower Rio Grande Valley of Texas.

FREEMAN, OTIS WILLARD, Professor of Geography, State Normal School, Cheney, Washington.

A.B. Albion College, 1910; M.S. University of Michigan, 1913; Graduate study, Northwestern University, University of Hawaii; Ph.D. Clark University, 1929; Science Teacher and High School Principal, Michigan, Montana, and California, 1910-23; Instructor, Geology and Physiography, Northwestern University, 1923-24; Professor of Geology and Geography, University of Hawaii, 1926-27.

Sigma Xi; American Association for the Advancement of Science; Director National Council of Geography Teachers; Northwest Scientific Association; American Meteorological Society.

Field studies—Economic and Human Geography of Hawaii, Geography and Geology of central Montana, Geography of eastern Washington.

*Geographic Influences Affecting the Settlement and Distribution of Population in Michigan*, Mich. Acad. of Sci., Reports, 1913.

*Montana: A Study of the Geographic Factors Influencing the State*, Bull. Geog. Soc. of Phila., Oct., 1914.

*Yogo Sapphire Mines*, Jour. of Geog., 1914, 12: 219, and Min. and Sci. Press, May 23, 1914.

- The North Moccasin Mountains*, Mining World, May 22, 1914.  
*Geographic Influences Affecting Population and Industries in Montana*, Inter-Mountain Educator, Jan., 1916.  
*Iceberg Lake*, Mich. Acad. of Sci., Report 1916.  
*Geography of the Brick, Plaster, and Lime Industry in Montana*, Inter-Mt. Educ., June, 1916.  
*Mineral Deposits of the Judith Mountains*, Min. and Sci. Press, June 10, 1916.  
*Gypsum and Lime Industry in Central Montana*, Min. and Eng. World, Vol. 45: 663-665.  
*Mineral Deposits of Fergus County, Montana*, Min. and Eng. Jour., April, 1917.  
*A Complete High School Course in Physiography*, School Sci. and Math., Oct., 1918.  
*Potash in Central Montana*, Min. and Sci. Press, Mar. 23, 1918.  
*Hanover Plant of the Three Forks Cement Co.*, Concrete (Cement Mill Edition), Mar., 1918.  
*Oil Fields in Central Montana*, Min. and Eng. Jour., April, 1920.  
*Geography and Geology of Fergus County, Montana*, High School Bull. No. 2, Lewiston, Montana.  
*Oil in Montana*, Inter-Mt. Educ., Feb., 1921.  
*Commercial Geography in a Montana High School*, Jour. of Geog., 1921, 20: 144-150.  
*Oil in the Quadrant Formation in Montana*, Min. and Eng. Jour.—Press, May 13, 1922.  
*The Use of Motion Pictures in Commercial Geography*, Jour. of Geog., 1923, 22: 30-34.  
*Two Dozen Causes for the Location of Blast Furnaces and Steel Mills in the United States*, Jour. of Geog., 1923, 22: 144-148.  
*New Discovery of the Belt Series in Montana*, Sci., Apr. 6, 1923.  
*The Origin of Swimming Woman Canyon, Big Snowy Mountains, Montana*, Jour. of Geol., 1923, 31.  
*Geographic Provinces of Argentina*, Jour. of Geog., 1925, 24: 300-313.  
*Republic, Washington, Needs Capital*, Min. and Eng. Jour.—Press, Feb. 28, 1925.  
*Barometer Well in the Columbia River Basalt*, Bull. Amer. Meteorological Soc., 1925, 6: 161-162.  
*Scabland Mounds of Eastern Washington*, Sci., Nov. 5, 1926, pp. 450-451.  
*Mammoth Remains in the Lows of Washington (Eastern)*, Sci., Nov. 12, 1926.  
*Cultural Geography*, Hawaii Teacher's Jour., May, 1927.  
*Economic Geography of Hawaii*, Research Pub. No. 2, University of Hawaii, Honolulu, 1927.  
*The People of Hawaii*, Jour. of Geog., 1928, 27: 125-144.  
*Economic Geography of the Hawaiian Islands*, Econ. Geog., 1929, 5: 260-276.  
*The Relation of Forests and Man in Hawaii*, Amer. Forests and Forest Life, Feb., 1929.  
*Extraordinary Weather on the Northern Plateau*, Bull. Amer. Meteorological Soc., 1930, 11: 44-45.  
*Human Geography in the Scablands of Western Washington*, Econ. Geog., 1931, 7: 28-40.  
*Geography of Washington*, Macmillan Co. (contracted for publication).  
 Research in hand: *Geography of Washington*, Apple Growing in the Wenatchee Valley; *Geographic Regions of the Columbia Plateau*.

GIRARD, LILLIAN, Case Worker, Illinois Children's Home and Aid Society, Chicago, Illinois.

A.B. University of Michigan, 1924; A.M. Clark University, 1925; Graduate work Simmons College, School of Social Work, Boston, Massachusetts, 1929-30;

Clerical Assistant Clark University, 1925-26; Teacher, Geography, Plymouth Normal School, Plymouth, New Hampshire, 1926-27; Research Assistant Board of Education, Detroit, Michigan, 1927-28; Social Worker, Memorial Hospital, Worcester, Massachusetts, 1928-29.

GLASGOW, JAMES H., McKnight and McKnight, Bloomington, Illinois.

B.Ed., Illinois State Normal University, 1928; A.M. Clark University, 1929. Kappa Delta Pi.

GOOZE, CHARLES, Financial Research, Case, Pomeroy & Company, Incorporated, New York City.

A.B. College of the City of Detroit, 1926; A.M. Clark University, 1927, Ph.D., 1929.



STUDENT ALCOVE IN GEOGRAPHY WORKROOM

GRAHAM, GUILBERT ROBERTSON, Student in School of Geography, Clark University.

B.S. in Education in Agriculture, Ohio University, 1924; A.M. Clark University, 1931; Teacher, General Science, High School, Zanesville, Ohio.

GREGORY, ELIZABETH EMERY, Instructor Geography, Keene Normal School, Keene, New Hampshire.

A.B. Western Reserve University, 1927; A.M. Clark University, 1930; Teacher, Geography, Garfield High School, Cleveland, Ohio.

GUEFFROY, EDNA MAE, Assistant Professor, Geography Department, Illinois State Normal University, Bloomington, Illinois.

B.Ed. Illinois State Normal University, 1926; A.M. Clark University, 1927; Assistant Principal, City Grade School, Bloomington, Illinois; Teacher, High School, History, Cuba, Illinois; Instructor, Geography Department, Southern Illinois Teachers College, 1927-29; Instructor, Home Study Department, Illinois State Normal University, 1929-30.

Illinois State Academy of Science; American Association for Advancement of Science; National Geographical Society; National Council of Geography Teachers; Home Geographic Society.



HANRATTA, ANNA, Assistant Teacher in Geography—General Science, State Teachers College, La Crosse, Wisconsin.

A.B. State Teachers College, Mt. Pleasant, Michigan, 1923; A.M. Clark University, 1928; Geography teacher, State Normal School, Paterson, New Jersey, 1928–29.

A.B. with honors; National Council of Geography Teachers; National Geographic Society; Home Geographic Society.

New England field trip with Clark University, 1924; Montreal field trip 1926. Intensive study of the Greenfield Region, 1927.

*Methods and Materials for Use with Michigan State Course of Study in Geography*, Bull. No. 48, Dept. of Educ., Lansing, Michigan.

HART, MRS. ISABELLE KINGSBURY, Supervisor of Geography, Oswego State Normal School, Oswego, New York.

A.M. Clark University, 1927; Teacher, High School Science and Mathematics; Department work in grades.

National Council of Geography Teachers; National Educational Association; New York State Teachers Association; New York Association of Teachers College and Normal School Faculties.

Field studies in eastern Canada and United States, British Isles and western Europe.

The Geography Course of Study and Teachers Manual for the Oswego State Normal School, 1925; Exercises in Geography for Normal School Classes, 1926; *The Need for and Nature of Journey Geography*, Jour. of Geog., 1931, 30: 170–177.

Research in hand: A Study of Children's Travel Experiences.

HOLZHAUER, CARL FREDERICK, Teacher of Geography, Northeastern High School, Detroit, Michigan.

A.B. College of the City of Detroit, 1926; A.M. Clark University, 1928; Life Teaching Certificate, Detroit Teacher's College, 1929 (January to June).

National Council of Geography Teachers.

HOWE, GEORGE FRANKLIN, Geography Department, State Normal School, New Britain, Connecticut.

A.B. Clark University, 1922; A.M., 1924; Teacher, High School, Wyandotte, Michigan.

Conductor of two Clark University Field Trips to Canada.

*The Summer and Winter Weather of Selected Cities in North America*, Mo. Weather Rev., 1925, 53: 427–430; *The Lime Industry at Rockland, Maine*, Econ. Geog., 1930, 6: 389–398.

Research in hand: A Study of Children's Knowledge of Directions in Space.

HOYT, EDITH ELAINE, 329 Franklin Street, Marietta, Ohio.

A.B. Marietta College, 1926; A.M. Clark University, 1928; Instructor, Geography and Geology, Marietta College, 1928–29; Critic teacher, Geography, Bowling Green Junior High School, 1929–30.

HUANG, YÜ JUNG, Lecturer in Geography, Tsing Hua University, Peiping, China.

A.B. Yenching University, 1924; A.M. Clark University, 1928; Instructor, Geography, Yenching University, 1928–30.

HUDGINS, BERT, Professor of Geography and Head of Department, Geography and Geology, College of City of Detroit, Detroit, Michigan.

B.Ed. Illinois State Normal University, 1914-15; M.S. University of Chicago, 1921; Ph.D. Clark University, 1930; Teacher, Rural School, Lee County, Illinois, 1908-09; Superintendent Schools, Cerro Gordo, Illinois, 1913-14; Principal Lincoln High School, Lincoln, Illinois, 1915-18; Instructor, Geography, Eastern State Teacher's College, Charleston, Illinois, Summer, 1919; State Teacher's College, Mankato, Minnesota, Summer 1922; Illinois State Normal University, Normal, Illinois, Summer 1923; Junior College, Detroit, Michigan, 1920.

Winner Inter-Society Oratory, 1914; Winner second medal in Illinois Association Literary Societies, Oratory, 1915; Pi Kappa Delta, 1924; Michigan State Teacher's Association; National Council Geography Teachers; American Association for Advancement of Science; N. E. A.

University of Chicago Field Studies about Chicago, northern Illinois, Indiana, and southern Wisconsin. Clark University Field Study Montreal Trip, 1927; Conductor Clark University Transcontinental, 1929; travel in northern Michigan, summer 1928; numerous field studies about Detroit and Michigan.

*Field Studies*—a pamphlet on Field Trips about Detroit, 1925; A Geology Laboratory Manual—for college classes, Edwards Brothers, Ann Arbor, 1927; Topics, outline and references for college course in Geographical Influences in American History, Edwards, Ann Arbor, 1927; *Weather and Filtration of Water Supply, Detroit*, Mo. Weather Rev., 1930, 58: 354-362.

Research in hand: Geographical Influences in Water Purification at Detroit, Journal American Waterworks Association (accepted); Article, Bean Production in Michigan; College textbook on World Regional Geography.

HUFFINGTON, PAUL, Head of Geography Department State Normal School, Bridgewater, Massachusetts.

B.Ed. Illinois State Normal University, 1924; A.M. Clark University, 1929; Principal Forrest Township High School, Forrest, Illinois.

National Council Geography Teachers.

Field studies in Pennsylvania and southern Ontario, Summer of 1930.

Research in hand. Land Utilization, Bridgewater, Massachusetts.

HUNT, THOMAS FRANCIS, Professor of Geography, Washington Normal, Bellingham, Washington.

A.B. Minnesota University, 1909; Graduate study, University of California, 1921, University of Chicago, 1918; A.M. Clark University, 1927; Graduate study, University of California, 1929; Teacher, High School, Webster, South Dakota, Aberdeen, South Dakota, Walla Walla, Washington.

HUTTER, HARRY KENNEDY, Assistant in Geography, University of Wisconsin, Madison, Wisconsin.

A.B. Muskingum College, 1925; A.M. Clark University, 1930; Instructor, Geology and Geography Department, Muskingum College, 1926-29; Teacher, Cambridge High School, Cambridge, Ohio, 1925-26.

National Council of Geography Teachers; American Geographical Society; National Geographic Society.

Field study of the town of Holden, Massachusetts.

JACKSON, ERIC P. (deceased)

A.B. Brown University, 1920; A.M. Clark University, 1923; Graduate study, University of Grenoble, France; Assistant Professor, Geography, Hillsdale College, Hillsdale, Michigan.



*Geography as a Correlating Subject in the High School*, Jour. of Geog., 1923, 22: 326-329; *The Early Historical Geography of San Francisco*, Jour. of Geog., 1927, 26: 12-22.

JAMES, PRESTON EVERETT, Associate Professor of Geography, University of Michigan, Ann Arbor, Michigan.

A.B., Harvard University, 1920; A.M., 1921; Ph.D. Clark University, 1923; Assistant, Harvard University, 1919-21; Instructor, Clark University, 1921-23; Instructor, University of Michigan, 1923-24; Assistant Professor, University of Michigan, 1924-29.

Association American Geographers; American Geographical Society; American Association for the Advancement of Science; American Meteorological Society; Harvard Traveler's Club; University of Michigan Research Club (Secretary 1929-30).

Field studies in Rocky Mountains 1919-20; South America, 1921; Trinidad, 1925; Blackstone Valley (Massachusetts and Rhode Island), 1927; Vicksburg (Mississippi) 1929; sabbatical leave 1930-31, Brazil.

*The Geographic Setting of the Tacna-Arica Dispute*, Jour. of Geog., 1922, 21: 339-348.

*Geographic Factors in the Development of Trans-Andean Communications*, Bull. Geog. Soc. of Phila., 1923, 21: 74-83; Reprinted: Bull. Pan American Union, 1923, American Consular Bull.; *Las Comunicaciones Transandinas entre Argentina y Chile: Factores Geograficos del Desarrollo*, Boletin de la Union Panamericana, 1924, p. 700-713.

*The Upper Parana Lowland: A Problem in South American Railroad Development*, Jour. of Geog., 1923, 22: 245-256; Reprinted: Pan Amer. Bull. 1924.

*The Transportation Problem of Highland Colombia*, Jour. of Geog., 1923, 22: 347-354.

*Feats of Railroadng in the Andes*, Pop. Mechanics Mag., 1924, p. 538-542.

*The Possibilities of Cattle Production in Venezuela*, Bull. Geog. Soc. of Phila., 1924, 22: 45-56.

*Geographic Principles and Their Application to the Teaching of Geography*, Jour. of Geog., 1924, 23: 136-141.

*Outline for a Course on the Principles of Geography*, Mimeographed by Edwards Brothers, 112 pp., 1924 (with R. Burnett Hall).

*A Suggested Outline for the Treatment of a Geographic Region*, Jour. of Geog. 1924, 23: 288-291 (with R. Burnett Hall).

*The Climate of Trinidad*, Mo. Weather Rev., 1925, 53: 71-75.

*Geographic Factors in the Development of Transportation in South America*, Econ. Geog., 1925, 1: 247-261.

*The Pitch Lake, Trinidad*, Jour. of Geog., 1925, 24: 212-220.

*Elementary College Geography: An Introduction to Economic and Regional Geography*, Mimeographed by Edwards Bros., 1925 (with R. Burnett Hall).

*Geographic Factors in the Trinidad Coconut Industry*, Econ. Geog., 1926, 2: 108-125.

*Some Geographic Relations in Trinidad*, Scottish Geog. Mag., 1926, 42: 84-93.

*L'Isola Di Trinidad*, Le Vie D'Italia e Dell'America Latina, 1926, 32: 1231-1236.

*A Geographic Reconnaissance of Trinidad*, Econ. Geog., 1927, 3: 88-109.

*Notes on the Geography of Trinidad*, Jour. of Geog., 1927, 26: 130-142.

*Iquique and the Atacama Desert*, Scottish Geog. Mag., 1927, 43: 203-215.

*Regional Geography: A Chorographical Study of the World*, Mimeographed by Edwards Bros., 1929, 2 vols.

*The Blackstone Valley: A Study in Chorography in Southern New England*, Annals Assoc. of Amer. Geog., 1929, 19: 67-109.

*The Tapajóz and Xingú Valleys of Brazil: A Type Study in the Evolution of Amazon Landscape*, Bull. Geog. Soc. of Phila., 1930, 28: 63-77.

*Filling in the Map: The Freshman Work in Geography at the University of Michigan*, Jour. of Geog., 1930, 29: 199-202.

*The Shari Plain*, Jour. of Geog., 1930, 29: 319-330.

*Vicksburg, A Study in Urban Geography*, Geog. Rev., 1931, 21: 234-244.

Research in hand: Completion of Brazilian studies.

JONASSON, OLOF GEORG, Associate Professor at Handelshögskolan of Stockholm, Sweden.

Graduate of University of Commerce, Stockholm, 1915; Graduate of University of Stockholm, 1922; Ph.D. Clark University, 1926.

*The Agricultural Regions of Europe*, Econ. Geog., 1925, 1: 277-315, and 1926, 2: 19-49.

KELLER, DONALD, Head of Earth Science Department, Nebraska State Teachers College, Kearney, Nebraska.

B.S., Indiana State Teachers College, 1925; A.M. Clark University, 1926. National Geographic Society.

KELLER, LOIS REBECCA, Geography Teacher, Shaker Heights Junior High School, Cleveland, Ohio.

B.S. in Ed., Ohio State University, 1925; A.M. Clark University, 1929; Supervising critic, Geography, Ohio University, Athens, Ohio.

Pi Lambda Theta (honorary educational fraternity).

KNIGHT, ELLA BARTLETT, Teacher of Geography, Omaha Public Schools, Omaha, Nebraska.

A.B. University of Omaha, 1921; A.M. Clark University, 1924; Teacher, Public Schools, Pueblo, Colorado, Hammond, Indiana; Teacher, English, Carthage Collegiate Institute at Carthage, Missouri.

Field study, urban geography, Omaha, Nebraska.

Livestock pamphlet for Omaha Chamber of Commerce; collaborated on text on Omaha (in press).

KOEPPE, CLARENCE EUGENE, Professor of Geography, Southwest Missouri State Teachers College, Springfield, Missouri.

B.S. Colgate University, 1914; A.M. Clark University, 1927; Ph.D., 1929; Teacher, Science and Mathematics in Pennsylvania High Schools from 1914-1920, except for fifteen months in Meteorological Service of U. S. Army; Principal, High School, Churchville, New York, 1920-1924; New York representative Benjamin H. Sanborn & Co., 1924-1926.

Phi Beta Kappa; American Geographical Society; National Council of Geography Teachers; American Meteorological Society.

Co-author with D. C. Ridgley on workbooks published by McKnight & McKnight, Bloomington, Illinois: New York and North America, South America, Europe, Asia and Africa, Ohio and North America, Weather and Climate; *The Canadian Climate*, McKnight (in press).

Research in hand: World Classification of Climates.

LAFFLEUR, ALBERT, Professor of Geography and Geology, Head of Science Department, Ball State Teachers College, Muncie, Indiana.

A.B. Clark University, 1922; A.M., 1923; Ph.D., 1929; Instructor, Ohio University, Northwestern University, University of Nebraska.

Ohio Academy of Science.

Director Eastern Field Trip, University of Nebraska, Summer 1931.

Research in hand: Problems in Indiana geography.

LEE, HARRIET ELIZABETH, Instructor, Geography and Geology Department, Wellesley College, Wellesley, Mass.

A.B. Cornell University, 1927; A.M. Clark University, 1928.

Sigma Xi.

*Bluffs*, Jour. of Geog., 1928, 27: 114-121.

LIU, EN-LAN, Student Clark University.

A.B. Ginling College, Nanking, China, 1925; A.M. Clark University, 1931; Teacher at Ginling College.

American Academy of Political and Social Science.

*Climatic Provinces in China*, Mo. Weather Rev., 1930, 58: 209.

MCCONNELL, WALLACE ROBERT, Professor of Geography, Miami University, Oxford, Ohio.

A.B. University of Illinois, 1912; A.M. University of Wisconsin, 1917; Ph.D. Clark University, 1925; Teacher, Public Schools and Teachers Colleges in Illinois and Wisconsin.

Kappa Delta Pi; American Association for the Advancement of Science; National Council of Geography Teachers.

Special studies in southwestern United States, 1930.

*Winnebago and Lower Fox River Valley*, Jour. of Geog., 1913, 12: 262-267; *Rivers in Their Influence on Man*, Jour. of Geog., 1915, 14: 115-116; *The Nitrate Industry of Chile*, Jour. of Geog., 1917, 16: 211-214; *Geography and the Irish Question*, Jour. of Geog., 1919, 18: 259-267; *Criticism of the Presentation of an Industry in the Present Type of Geography Text Book*, Jour. of Geog., 1920, 19: 260-266; *The Place of Geography in the Junior High School*, Jour. of Geog., 1924, 23: 49-59; *Geography of Ohio*, Silver Burdett, 1929; *Modern School Atlas* edited with George Philips of London—Appleton, 1929; Study Guide Lessons in Geography, 1929-31.

Research in hand: A Survey of the Field of Geography in the Elementary School.

MCDAVITT, NEVA, Instructor, Geography and Nature Study, Illinois State Normal University, Normal, Illinois.

B.Ed. Illinois State Normal University, 1925; A.M. Clark University, 1921; Teacher, Rural Schools, Piatt, Champaign Co., Illinois; Maron Consolidated School, Filer, Idaho; Roosevelt High School, Wyandotte, Michigan.

Kappa Delta Pi; American Association for the Advancement of Science; National Council of Geography Teachers.

Study tour through eastern United States.

MCQUEENY, THERESE FRANCES, Teacher in Worcester Public Schools, Worcester, Massachusetts.

B.Ed. Clark University, 1927; A.M., 1930.

Field work in Connecticut Valley, 1929.

*Our Forests and Their Conservation*, Safety Education, Oct., 1927; *Introduction to Grade Eight Course*, *The Lands to be Developed*, *The Climates of the United States*, *Our Forests*, Worcester Manual for Geography in Grades 7 and 8, 1930.

MARTIN, MRS. MAUDE COTTINGHAM, Social Studies in the Junior High School, Cleveland Heights, Ohio.

A.B. University of Wisconsin, 1914; A.M. Clark University, 1926; Teacher, Geography Public School, Hebbing, Minnesota; Training School, State Teachers College, Bowling Green, Ohio.



*Geography in the Junior High School*, Jour. of Geog., 1926, 25: 250-258; *Units of Study Suitable for Study in Junior High School*, Jour. of Geog., 1927, 26: 148-159.

Research in hand: Subject matter suitable for a unified course in Geography and History for Junior High Schools.

MASON, CAROL Y., Instructor, Geology and Geography, Milwaukee-Downer College, Milwaukee, Wisconsin.

A.B. Wellesley College, 1924; A.M. Clark University, 1925; Graduate study, University of Illinois, University of Chicago, University of New Mexico; Assistant, Geography Department, University of Illinois.

Sigma Xi; Sigma Delta Epsilon.

Clark European Field Trip, 1927, Around the World, 1928, Plant Geography Trip, New Mexico, 1929.

*The Cranberry Industry in Massachusetts*, Econ. Geog., 1926, 2: 57-70.

MEANS, MARGARET, Teacher of Geography, Bloomington High School, Bloomington, Indiana.

B.Ed. Illinois State Normal University, 1925; A.M. Clark University, 1929; Departmental Teacher, Geography, Elementary Schools, Bloomington, Illinois. Illinois Academy of Science.

New England Field Trip, 1924, Canadian Field Trip, 1926, Transcontinental Field Trip, 1928, Clark University.

MILSTEAD, HARLEY P., Head of Geography Department, Montclair State Teachers College, Upper Montclair, New Jersey.

B.Ed. Illinois State Teachers College, 1923; A.M. Clark University, 1926; Head of Geography Department, Moline High School, Moline, Illinois; Summer school, Indiana, Pennsylvania; Normal, Illinois.

American Geographical Society.

Field work in the West Indies.

*Bolivia as a Source of Tin*, Econ. Geog., 1927, 3: 354-360; *The Distribution of Crops in Peru*, Econ. Geog., 1928, 4: 88-106.

Research in hand: Geography of Granada.

MITCHELL, ADELPHIA, Associate Professor in Geography, Sam Houston State Teachers College, Huntsville, Texas.

A.B. Iowa State Teachers College, 1917; Graduate study, Iowa State University Summer School; A.M. Clark University, 1928; Normal Training Critic, Clinton High School, Clinton, Iowa; Associate Professor, Education, Sam Houston State Teachers College.

Field studies, Newfoundland; Western Europe and Russia, summer 1930.

*Life Adjustments in Cooks Harbor, Newfoundland*, Jour. of Geog., 1931, 30: 137-145.

Research in hand: Life Adjustments on Gulf Coastal Plain.

PACKARD, LEONARD W., Head of Geography Department, Teachers College, Boston, Massachusetts.

B.S. Harvard University, 1904; A.M. Clark University, 1926; Head of Science Department, High School, New Britain, Connecticut, 1904-07.

B.S. magna cum laude; National Council of Geography Teachers (president 1928).

*Russian Expansion and the Long Struggle for Open Ports*, Jour. of Geog., 1913, 14: 33-39; *Siberia*, Jour. of Geog., 1914, 13: 74-78; *The Decrease of Population*

*Along the Maine Coast*, Geog. Rev., 1916, 2: 334-341; *Geography and Reconstruction in Education*, Jour. of Geog., 1919, 18: 24-28; *The Place of Detail in Geography Teaching*, Jour. of Geog., 1924, 23: 147-152; *Geography and World Citizenship*, Jour. of Geog., 1929, 28: 169-179; *Nations as Neighbors*, a textbook in geography in collaboration with C. P. Sinnott, Macmillan, 1925; *Current Events Instruction*, a textbook in collaboration with R. S. Kimball and others, Houghton Mifflin & Co.; Editor with others of Series of Wall Maps, A. J. Nyström & Co.; *Outline Maps in Physiography*, Denoyer-Giffert Co.; *Outline Map in History*, in collaboration with Francis J. Harpen.

PAGE, JOHN LORENCE, Associate Professor in Geography, University of Illinois, Urbana, Illinois.

A.B. University of Oklahoma, 1926; A.M. Clark University, 1927, Ph.D., 1929; Instructor, University of Oklahoma, University of California at Los Angeles, Emory University, and Sam Houston State Teachers College.

American Association for Advancement of Science; American Meteorological Society; Sigma Xi.

Field studies in Mexico during the summer of 1928.

*Climate of Mexico*, Mo. Weather Rev., 1930, Supplement No. 33, 30 pp.; *Climate of Yucatan*, (in press) Carnegie Institution.

Research in hand: Climate of Mexico for Köppen Project.

PITKIN, VICTOR E., Student at Clark University.

A.B. Clark University, 1930, A.M., 1931.

Field studies in Connecticut Valley; travel through most of New England.

Research in hand: The Geographic Factors of the Maple Sugar Industry with Special Reference to Vermont.

POST, CLARENCE, Head of Geography Department, State Normal School, Glenville, West Virginia.

A.B. West Virginia University, 1907; Graduate study Cornell University Summer 1907, University of Chicago 1910-11; A.M. Clark University, 1925; Instructor, West Virginia University three years; Superintendent City Schools, Bridgeport, West Virginia six years.

PRATOR, MOINA, (deceased)

B.S. University of Chicago, 1914; M.S., 1918; Ph.D. Clark University, 1929; Assistant Professor, Geography, Marshall College, Huntington, West Virginia.

*A Seventh Grade Problem Study in Czechoslovakia*, Jour. of Geog., 1923, 22: 100-104.

RICHARDS, GRAGG, Mining Geologist, 201 West 81st Street, New York, New York.

B.S. Harvard University, 1902, M.S., 1903, A.M., 1925, Ph.D. Clark University, 1927; Professor, Geology, Mineralogy and Geography at the College of the City of Detroit.

Twenty years geological field work and examination of mineral deposits in United States, Canada, Mexico, Central America, West Indies, Venezuela, Colombia, Ecuador, Peru, Chile, Argentina, Uruguay, Brazil, Norway, Sweden, and Denmark. Travel in France, England, Wales, and Ireland.

*Veins with Fibrous Quartz and Chlorite from the Vicinity of Providence, Rhode Island*, Amer. Mineralogist, Feb., 1925; *The Rainfall of Florida*, Bull. of Amer. Meteorological Soc., 1927, 8: 34-35 and Mo. Weather Rev., 1927, 55: 80-81; *Newberyite and other Phosphates from Ascension Island*, Amer. Mineralogist,



July, 1928; *The Rainfall of Northern New England*, Jour. of New Eng. Water Works Assoc., Dec., 1928 and 1930, 44: 105; *Average Rainfall Tables for Northern New England*, Jour. of New Eng. Water Works Assoc., Mar., 1929 and Mar., 1930.

RIDGLEY, DOUGLAS C. (See page 46)

RIPLEY, MABEL, Western State Teachers College, Kalamazoo, Michigan.  
B.Ed. Illinois State Normal University, 1926; A.M. Clark University, 1927.



STUDENT ALCOVE IN GEOGRAPHY WORKROOM

ROBERTSON, INA CULLOM, Head of Geography Department, State Teachers College, Valley City, North Dakota.

A.B. University of Illinois, 1921; A.M. Clark University, 1924; Teacher, Summer school State Teachers College, Charleston, Illinois and also at Kent, Ohio.

Kappa Delta Pi.

Yellowstone National Park, Black Hills, Minnesota Iron Range Country.  
*The Ozark Region of Illinois—A Regional Study in Land Utilization*, Jour. of Geog., 1925, 24: 101-111; *The Ozark Orchard Center of Southern Illinois*, Econ. Geog., 1928, 4: 253-267.

Research in hand: A Study on Africa—Child's Geographic Reader.

RUCKER, ROBERT W., Head of Geography Department, Hyannis State Normal School, Hyannis, Massachusetts.

B.Ed. Illinois State Normal University, 1927; A.M. Clark University, 1928; Instructor, Geography, Normal University, Normal, Illinois.

RUSSELL, EDWARD D. (in business), 4 Hudson Street, Worcester, Massachusetts.

A.B. Clark University, 1921; A.M., 1922.

RUSSELL, HENRY HARRISON, Head of Geography Department, State Teachers College, Bloomsburg, Pennsylvania.

B.Ed. Illinois State Normal University, 1920; A.M. Clark University, 1924; Ph.D., 1926.

American Geographic Society; Pennsylvania Academy of Science.

Field studies—The Geography of the Great Valley; The Vegetable Industry of the Maryland-Delaware Peninsula; Cape Breton Island—The Land and the People.

*Studies in United States History, with Emphasis upon Geographic Aspects; Studies in Junior High School Geography; Tests in Geography* (co-author with D. C. Ridgley), McKnight and McKnight, 1926.

Research in hand: An Analysis of Geography in the Junior High Schools of the United States.

SAUNDERS, RICHARD MERRILL, Boldt Fellow in History, Cornell University, Ithaca, New York.

A.B. Clark University, 1924; A.M., 1925; Ph.D. Cornell University, 1931; Instructor, History, American University of Beirut, Syria; Assistant, Ancient History, Cornell University.

A.B. with highest honors.

In Syria 1925-28, trip through Mesopotamia and Arabian Desert with Maynard Williams of *National Geographic*. Member of official exploration party to Dog River Caverns in Lebanon and of party in winter ascent of Jebel Samine.

Research in hand: A Study of the Provincial Academies of France, 1652-1793—an aspect of French intellectual life.

SCHLESSELMAN, GEORGE W., Assistant Professor in Geography, Hillsdale College, Hillsdale, Michigan.

A.B. Iowa State Teachers College, 1927; A.M. Clark University, 1928; Graduate study, University of Zurich, Switzerland.

SCHNEIDER, LEONARD RAYMOND, Head of Science Department, John Hay High School, Cleveland, Ohio.

B.Ed. Illinois State Normal University, 1924; A.M. Clark University, 1930; Leader in the field, Hobbs University of Michigan Expedition to Greenland, 1928-29.

Explorers Club of New York City; Central Association of Science and Mathematics Teachers.

One year at Mt. Evans, Greenland. One year in Scandinavian countries, one month on the continent.

*Radio in the Arctic*, Pop. Mechanics Mag.; *Greenland West Coast Föhnns*, Mo. Weather Rev., 1930, 58: 135-139; *Meteorological Investigations in Greenland during 1930-31*, Mo. Weather Rev., 1930, 58: 412.

Research in hand: Preparation of standardized tests for Physics.

SCHWENDEMAN, JOSEPH R., Head of Geography Department, State Teachers College, Moorhead, Minnesota.

B.S. in Education, Ohio University, 1926; A.M. Clark University, 1927; Instructor, Geography Department, University of Minnesota, 1927-28; Instructor Spearfish State Teachers' College, South Dakota, summer, 1928.

National Council of Geography Teachers.

Conducted tours over Eastern United States and Canada, Central United States and Canada, and Western United States including National Parks.

SHANK, MARJORIE MAE, Registrar and part time teacher of Geography, Southern Illinois Normal University, Carbondale, Illinois.

A.B. University of North Dakota, 1921; A.M. Clark University, 1923; Teacher Geography, Southern Illinois Normal University.

Phi Beta Kappa.

Travel in England, 1930.

*A Mid-western Tornado*, Jour. of Geog., 1926, 25: 60-67.

SHIPMAN, JULIA MARY, Assistant Professor, Geology and Geography Department, Mount Holyoke College, South Hadley, Massachusetts.

B.S. in Ed., Boston University, 1920; A.M. Clark University, 1923; Ph.D., 1928; Instructor, Geology and Geography Department, University of Tennessee, 1928-29; Instructor, Geography Department, University of Nebraska, 1929-30.

B.S. cum laude; American Geographical Society.

Two summers in Europe; several trips across United States; field work in Nebraska, North Dakota Bad Lands, and Eastern Tennessee.

*Geography in the Fourth Grade*, Jour. of Geog., 1924, 23: 71-73; *Criteria for Choosing and Using Geographic Materials in Elementary Geography*, Jour. of Geog., 1927, 26: 105-108; *The New England Flood*, Jour. of Geog., 1928, 27: 36-41; *Local Phases of the New England Flood*, Bull. Geog. Soc. of Phila., July, 1928; *Denver, a Rocky Mountain Gateway*, Home Geog. Mo., 1931, 1: 26-32.

Research in hand: Studies in Urban Geography; Field work in northwestern Canada and Alaska to be undertaken summer of 1931.

SPENCE, VINA ELIZABETH, Geography Teacher, State Normal School, Plymouth, New Hampshire.

A.B. Mount Holyoke College, 1929; A.M. Clark University, 1930.

SWETT, PHELPS N., Professor of Geography and Graphics, Middlebury College, Middlebury, Vt.

B.S. Massachusetts Institute of Technology, 1907; A.M. Clark University, 1925.

American Geographical Society; Vermont Society of Engineers.

Travel in United States, western Europe, Dominion of Canada.

SWITZER, JESSE ELMER, Associate Professor of Geography, University of Indiana, Bloomington, Indiana.

B.S. University of Chicago, 1911; Graduate work University of Chicago, summer 1915; Ph.D. Clark University, 1923; Professor, Geography, State Teachers College, Valley City, North Dakota, 1911-21; Instructor, Geography, summer terms; Connecticut Summer School, Yale University, 1922-23; Peabody College for Teachers, 1926, 27, 28; University of North Dakota, 1930.

American Meteorological Society; American Association for Advancement of Science; American Geographical Society; National Council of Geography Teachers; Indiana Academy of Science.

Travel through most of the United States and southern Canada.

*Distribution of Precipitation in Relation to the Mississippi Floods*, 1927, Indiana Acad. Sci. Proc., 1927; *Present Status of Waterway Development in the United States*, Indiana Acad. Sci. Proc., 1926; *A Trip to the Yazoo Delta Flood*, 1927, Jour. Geog., 1927, 26: 293-299; *Weather Types in the Climate of Mexico, the Canal Zone, and West Indies*, Mo. Weather Rev., 1925, 53: 434-437; *Fauna and Flora of North Dakota*, in Naturalists Guide of North America.

Research in hand: Land Use in the City of Bloomington, Indiana—A Study in City Mapping. Agricultural Use of the Land of the Bloomington Quadrangle. Possibilities of the Economic Utilization of Our Inland Waterways.



TALIAFERRO, REBECCA MARTIN, Assistant in Geography Département, Randolph-Macon Woman's College, Lynchburg, Virginia.

A.B. Randolph-Macon Woman's College, 1929; A.M. Clark University, 1931; Research Assistant to Dr. Clarence F. Jones, Clark University.  
Pi Gamma Mu; National Council of Geography Teachers.

THOMAS, KATHERYNE COLVIN, Assistant Professor of Geography, State Teachers College, Buffalo, New York.

A.B. Vassar College, 1921; A.M. Clark University, 1925; Graduate study, Clark University, 1929; Teacher, English, High School, Fairbanks, Alaska; Waseda First Kotogakuin and other schools, Tokyo, Japan; Y. M. C. A. High School, Manila, Philippine Islands; Round Table Leader, State Normal School, Castine, Maine.

*The Prince's Birthday*, Jour. of Geog., 1926, 25: 352-355.

VAN CLEEF, EUGENE, Professor of Geography, Chairman of Foreign Commerce Division, Ohio State University, Columbus, Ohio.

B.S. University of Chicago, 1908; Graduate study, University of Chicago, Autumn 1908, Summers 1909, 1910; University of Leipzig, 1913-14; Ph.D. Clark University, 1926; Instructor, Geography, State Teachers College, Duluth, Minnesota; Foreign Trade Manager, Van Cleef Brothers, Chicago, Illinois; Special Investigator, Rand McNally Company.

Sigma Xi; Beta Gamma Sigma; Association American Geographers; American Association for Advancement of Science; American Meteorological Society; Ohio Academy of Science; National Council of Geography Teachers.

Field studies—The Finns in America—1915 to date. The Finns in Finland, 1923 and 1926. Summer periods—The Sugar Beet and Climate in Germany, 1913-1914.

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Research in hand: *The Finns in America* (continued); *Problems in Urban Geography*.

VAN ROYEN, WILLEM, Instructor in Geography Department, University of Nebraska, Lincoln, Nebraska.

A.M. University of Utrecht, Holland, 1925; Ph.D. Clark University, 1928; Second Executive Secretary, "Netherlands Chamber of Commerce in New York, Inc."

American Geographical Society; Vereeniging voor Economische Geografie (correspondent for the United States).

Field studies in Europe.

*Climate of North America*, Mo. Weather Rev., 1927; Geography articles in Dutch Encyclopedia.

Research in hand: Preparing articles for publication from thesis material.

Article on Black Hills in preparation for T. voor Economische Geographie.

VARNEY, BURTON MERRILL, Associate Professor of Geography, University of California at Los Angeles, Los Angeles, California.

A.B. Harvard College, 1907, A.M., 1910, Ph.D. Clark University, 1925; Assistant and Teaching Fellow, Physiography and Meteorology, Harvard University; Instructor, Meteorology and Climatology, University of California, Berkeley, California, Assistant Editor, Monthly Weather Review, U. S. Weather Bureau, Washington, D. C.

American Geographical Society; American Meteorological Society; American Association for Advancement of Science.

Considerable travel in United States.

*The Seasonal Precipitation of California and Its Variability*, Mo. Weather Rev., 1925, 53: 148-163, 208-218. Papers and translations, in Mo. Weather Rev., and Amer. Jour. of Sci. Annual Summary of American Meteorology and Climatology for New York Times "American Yearbook" since 1925.

Research in hand: Studies in Marine Meteorology of the Pacific Ocean.

WEBER, J. HENRY, In charge of Geographical, Meteorological and Astronomical Exhibit, Lobby, News Building, New York City.

A.B. Clark University, 1926; A.M., 1927; Hydrographer, Panama Canal Zone, 1928-1930.

American Meteorological Society.

*Rainfall of New England*, Jour. of the New Eng. Water Works Assoc., 1930, 44: 6-73; *Flooding Rainstorm in New England*, Nov. 3-4, 1927, Jour. of the New Eng. Water Works Assoc., 1928, 42: 91-103, 1930, 44: 106-118, and Bull. Amer. Railway Engineering Assoc., 1929, No. 308.

WEST, ANTHONY J., Instructor in Geography, State Normal School, Brockport, New York.

B.Ed. Clark University, 1929; A.M., 1929.

WHITE, C. LANGDON, Head of Geography Department, Randolph-Macon Woman's College, Lynchburg, Virginia. Western Reserve University, 1931-.

B.S. Denison University, 1920; Graduate study, University of Chicago, 1922-23; Ph.D. Clark University, 1925; Instructor, Clark University, 1925; Instructor, School of Business Administration, University of Pittsburgh, 1925-26; Associate Professor, Miami University, 1926-28.

Phi-Beta Kappa; Pi Gamma Mu, Sigma Xi.

With American Expeditionary Forces in England and France, 1918-1919; Field work in agricultural geography in Wisconsin, 1923, and in Utah, 1923; field work in iron and steel in Pittsburgh, Birmingham, Buffalo, Cleveland, Youngstown, Wheeling, Sparrows Point, Hamilton and Middletown, 1925-30; field work as a member of the U.S.G.S. party in Tennessee 1919 and in New Mexico, 1920. Conductor, Clark University Transcontinental Field Trip of 9,000 miles, 1930.

*The Agricultural Geography of the Salt Lake Oasis*, Jour. Scientific Laboratories of Denison University, 1925.

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*Shenandoah—Daughter of the Stars*, Jour. of Geog., 1931, 30: 1-17.

Research in hand: Book—*The Iron and Steel Industry of the United States*. Book (to be a co-author)—*The Geography of Virginia*. Ready for publication, *The Iron and Steel Industry of Wheeling, West Virginia* (with C. E. Cooper), *The Sheep Industry of Southeastern Ohio*.

ZELLER, ROSE, Instructor in Geography, Eastern Illinois State Teachers College, Charleston, Illinois.

B.Ed. Illinois State Normal University, 1926; A.M. Clark University, 1930; Teacher, Geography, Junior High School, Springfield, Illinois.

New England and New York Field Trip, summer 1925; Illinois Field Trip, 1926; Clark Transcontinental Field Party, summer 1928; Canadian Field Trip, summer 1929.















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# Clark University

## Sub-Freshman Bulletin



Published in the Interest of  
Old Friends and New Acquaintances  
Worcester . . . Massachusetts  
November, 1931

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CLARK UNIVERSITY offers at moderate expense a thorough collegiate training leading to the degree of Bachelor of Arts. The scholastic requirements for the degree are one hundred and twenty semester hours credit, with a rank above the bottom quarter of the class in three-fifths of the work. Three and one-half years' work in Physical Training is also required.

In a limited number of departments, work is offered leading to the degrees of Master of Arts and Doctor of Philosophy.

The presence of a proportionately large graduate student body offers inducement to undergraduates for high standards of work.

Small classes and a relatively large faculty allow close acquaintance with heads of departments.

Undergraduates are encouraged to carry as full a schedule of courses as they are able and still maintain an average in the upper half of their classes. This permits those with sufficient ability to finish the course in three years and one-half or occasionally even in three years.

An endowment above the average, given for the specific purpose of keeping the expense of an education low, allows the tuition to be held at \$200.00

Twenty Jonas G. Clark Memorial Scholarships of \$100.00 each are available for entering freshmen who have graduated in the upper quarter of their preparatory school class. Ten similar scholarships are available for each of the three upper classes in college.



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November, 1931

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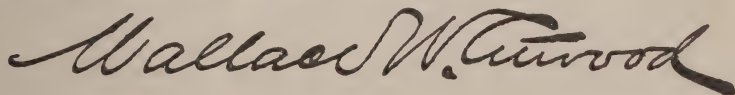
## FOREWORD

**Y**OU, as a High School Senior, may wonder why Clark University takes the trouble to send this bulletin to you. One reason is that while the *graduate division* of Clark University has an international reputation among scholars, the *undergraduate division* ("college") is younger and less widely known. We want you to know of it and to realize how attractive its educational opportunities are for young men who wish a first class college training. Clark men today are continuing their work with distinction in the best graduate schools of the country — both business and professional — or carrying on successfully in the various vocations.

Another reason is that it is our desire to select carefully about one hundred and twenty-five Freshmen each year from a much larger number of applicants. If you are well qualified and are looking forward to a first class education at a small New England college, you will do well to investigate Clark. The opportunities for personal association with the members of the faculty and for the establishment of close friendships with a large proportion of your classmates are especially good and will remain so because under no circumstances will Clark accept a large number of students. You will need fifteen certified units for admission without condition, but two conditions will be allowed if you are in every other way qualified. Deficiencies in certified units may be redeemed by passing the College Board examinations. You will also need good personality and character recommendations for we are increasingly careful in this respect.

Finally, although jealously guarding our reputation among New England colleges for the excellence of our scholastic work, we wish our students to have the other delightful experiences which accompany life at college. The opportunities for these as offered by athletic, musical, and social activities are described in the following pages.

We hope that you will read this bulletin carefully. If thereby you gain a worthwhile educational opportunity and we gain a worthwhile alumnus, we shall be satisfied.

A large, elegant, handwritten signature in dark ink, reading "Wallace W. Wood". The signature is written in a cursive style with long, sweeping strokes, particularly in the first and last names.

President

## *Officers of Administration and Instruction*

WALLACE WALTER ATWOOD, Ph.D. (Chicago)

President

Professor of Physical and Regional Geography and Director of the  
Graduate School of Geography

HOMER PAYSON LITTLE, Ph.D. (Johns Hopkins)

Dean of the College and Professor of Geology

LOUIS N. WILSON, Litt.D. (Tufts)

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CHARLES BREWSTER RANDOLPH, Ph.D. (Harvard)

Professor of German

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Professor of English Literature

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WALTER S. HUNTER, Ph.D. (Chicago)

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Professor of Meteorology and Climatology

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Professor of Geography in Education

CLARENCE FIELDEN JONES, Ph.D. (Chicago)

Professor of Economic Geography

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Professor of Agricultural Geography

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Professor of Physiology

CAREY EYSTER MELVILLE, A.B. (Northwestern)

Associate Professor of Mathematics and Registrar

VERNON JONES, Ph.D. (Columbia Teachers')

Associate Professor of Educational Psychology

JAMES ACKLEY MAXWELL, Ph.D. (Harvard)

Associate Professor of Economics

ARTHUR FLETCHER LUCAS, Ph.D. (Princeton)

Associate Professor of Economics

DWIGHT E. LEE, Ph.D. (Harvard)

Associate Professor of Modern European History

PERCY M. ROOPE, Ph.D. (Clark)

Associate Professor of Physics

HENRY DONALDSON JORDAN, Ph.D. (Harvard)

Associate Professor of English History

ROBERT STANLEY ILLINGWORTH, A.M. (Lafayette)

Associate Professor of English

JESSE LUNT BULLOCK, A.M. (Harvard)

Assistant Professor of Chemistry

DAVID POTTER, Ph.D. (Harvard)

Assistant Professor of Biology

GEORGE ELISHA BAKER, A.M. (Harvard)

Assistant Professor of English

HEINRICH BOSSHARD, Ph.D. (Zurich)

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\*CLARENCE HENRY GRAHAM, Ph.D. (Clark)

Assistant Professor of Psychology

WALLACE RICHARDS ATWOOD, Ph.D. (Clark)

Assistant Professor of Physiography and Regional  
Geography

RAY ALLEN BILLINGTON, A.M. (Michigan)

Instructor in History

ALBERT CLARENCE ERICKSON, A.M. (Clark)

Instructor in Physics

CHARLES MARC POMERAT

Assistant in Biology

GUY HARVEY BURNHAM, A.M. (Clark)

Cartographer, Graduate School of Geography

ERNEST RAYMOND WHITMAN

Director of Physical Education

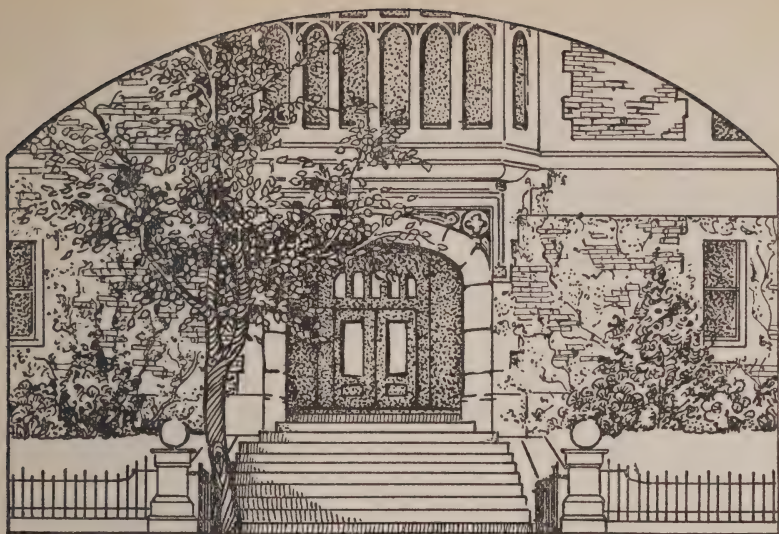
RALPH WARNER ELLIS, M.D. (Harvard)

Medical Director

DEAN WINSLOW HANSCOM, A.B. (Harvard)

Director of Glee Club

\*Absent on leave 1931-32



LIBRARY DOORWAY

### *Location*

CLARK UNIVERSITY is situated in Worcester, Massachusetts, a city of some 200,000 inhabitants, 45 miles from Boston. Worcester has long been one of the educational centers of New England, and is today the seat of Holy Cross College, Worcester Polytechnic Institute, Assumption College, Worcester State Normal School, and Worcester Academy, as well as of Clark. The Worcester Art Gallery is one of the notable galleries of the country. The churches of the city number over 100, and give full opportunity for worship according to individual preference. The Y. M. C. A. building, within easy walking distance of the University, contains one of the largest swimming pools east of the Mississippi. The situation of the city is such that opportunities in drama and music are offered superior to those available in most cities of similar size.



## *Historical*

Clark University owes its existence to the generosity of Jonas Gilman Clark, who gave funds for its establishment during his life and bequeathed it his fortune at his death. Students were first received in 1889. For the first thirteen years the University was exclusively a graduate school and, under the leadership of President G. Stanley Hall, an able staff of instructors sent out from the University a steady stream of scholarly men who have given the institution a prominence disproportionate to its size in the fields of Biology, Chemistry, Education, Mathematics, Physics, and Psychology. Under the provisions of Mr. Clark's will Clark College was established in 1902. At first the University and the College occupied the same grounds and buildings but had separate presidents and faculties. In 1921-1922 plans for their unification were perfected, and they became the Graduate and Undergraduate Divisions of Clark University. The latter, however, is still ordinarily referred to as Clark College.

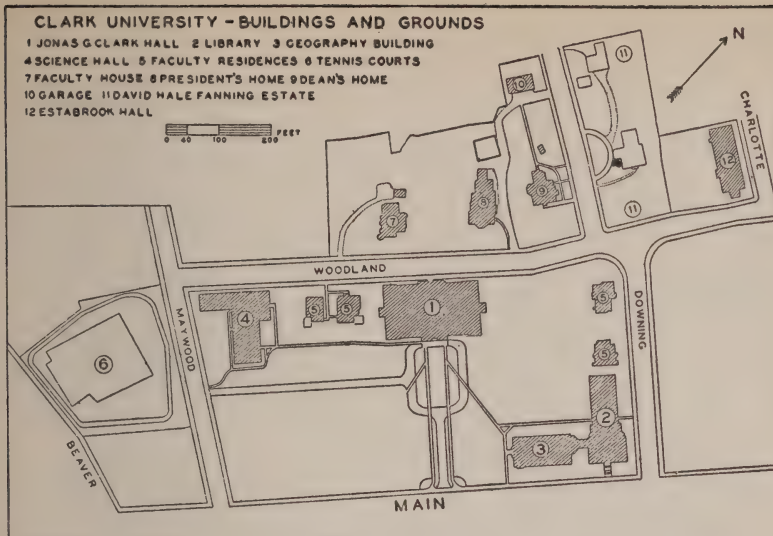
## *The Campus*

The campus consists of a plot of about seven acres, a mile southwest of the business center of Worcester. The offices of administration are in Jonas G. Clark Hall.

Estabrook Hall, the freshman dormitory, is modern in every way and is only a few minutes walk from the campus. It accommodates fifty-one students. The building is cared for by a man and wife of excellent personality who reside in it. The ground floor is occupied by the Dining Hall.

The University has recently developed as an athletic field a plot of about ten acres and equipped it with bleachers and a field house. There is, in addition, the old athletic field an acre or more in extent immediately adjoining the campus, with tennis courts, outdoor basketball court, a six lap running track and space for field events.





PLAN OF CAMPUS

### *Endowment, Laboratories, Library, and Faculty*

Clark University is a small institution with a total enrollment of approximately 350 full time students, but in contrast to many small institutions has a relatively large endowment—nearly five million dollars—with an additional million in its plant. This money is invested in the three things which make any institution outstanding—its faculty, its laboratories, and its library. These are the features about which an estimate of Clark should center.

Money has been generously spent in the equipment of research laboratories and the undergraduate student receives much advantage from their presence. The Chemical Laboratory unquestionably has an equipment superior to that of many colleges twice the size of Clark and the Psychological Laboratory is one of the finest in the country. The science of Meteorology, so useful in connection with modern aviation, is stressed at Clark and is attracting an increasing number of students.



LIBRARY AND GEOGRAPHY BUILDING

The Library deserves special mention. Clark is almost uniquely fortunate in this prerequisite for real university and college life for approximately a million dollars is available for the exclusive use of the Library. A permanent staff of seven besides student assistants is employed and the building is open for study from 8 a. m. to 10 p. m. each week day. Over one hundred thousand bound volumes and pamphlets are on the shelves and over five hundred journals are regularly received. About four thousand books are added each year. Each member of the University has direct access to every book and journal.

The Faculty, forty in number, is in an unusually large ratio to the student enrollment. The high degree of its professional training may be judged by an examination of its personnel, page two. With its limited numbers Clark offers to every student an unusual opportunity for personal association with the

Head of the Department in which he is working. *Moreover, with a faculty of this size, Clark is able to do much of its work in small classes, an ideal universally sought for but rarely realized.* These features may perhaps be justly regarded as the most important educational advantages of a course at Clark.

### *Courses of Study*

In the Undergraduate School the range of courses is similar to that offered in any first class college. Instruction is given in the following thirteen departments:

#### A. Division of Science

I Mathematics, II Physics, III Chemistry, IV Biology,  
V Geology

#### B. Division of Social Science and Psychology

VI History and International Relations, VII Economics  
and Sociology, VIII Psychology (including Education)

IX Geography (including Meteorology)

#### C. Division of Languages and Literature

X English, XI German, XII Romance Languages  
XIII Ancient Languages

The freshman program is largely fixed as it must include English, a Foreign Language, a course in the Division of Social Science and Psychology, and either Biology, Chemistry, Physics, or Mathematics.\*

At the end of the freshman year a student is expected to indicate in which department he intends to *major* and to select a *minor* in a closely related field. Too early specialization is prevented by required work in English, Foreign Languages, Laboratory Science, and Social Science and Psychology. These requirements, however, may be largely completed by the end of the sophomore year, *leaving much of the last two years free for study in fields of special interest.*

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\*A semester course in the Fine Arts must be elected in either Freshman or Sophomore year.



THE I

Clark desires the superior student to do independent work as early as possible and to this end those who average in the upper quarter of their classes are allowed during the junior and senior years to do independent work, not to exceed three hours each semester, under special supervision and without the requirements of regular classroom work. In this manner the transition to the graduate attitude of mind is easily made. This, together with the fact that an undergraduate whose scholastic record is good may continue his training at small cost, leads many Clark men into graduate study.

In addition to the usual courses leading to the degree of Bachelor of Arts, Clark offers graduate work leading to the degree of Master of Arts in Biology, Chemistry, and Physics, and to the degree of Doctor of Philosophy in Economics and Sociology, Geography, History and International Relations, Physiology, and Psychology and Education. No attempt is made to rival the large universities in the range of fields covered, but rather to do excellent work in a few departments.





MPUS

The Graduate School of Geography is performing a service unique in this part of the United States. The Summer School offers courses leading to the degree of Bachelor of Education, emphasizing particularly work in Economics, Geography, and History.

### *Admission*

The normal requirements for admission to the Undergraduate Division of Clark University are first, graduation from a high school of good standing; second, *presentation of fifteen units of certified work*; third, evidence of good moral character. Students who present thirteen or fourteen certified units may be admitted on condition. Conditions may be removed on evidence of ability to do satisfactory college work. Those who cannot present thirteen certified units for admission may obtain the required additional units by passing the examinations of the College Entrance Examination Board. Information concerning the Board may be obtained by addressing 431 West 117 St., New York City. Applications and fees must be forwarded to



the Board by about the middle of May. By special consent the September examinations furnished to the college by the Board may be taken in Worcester. The University stands ready to consider on their merits the cases of more mature individuals whose education has been irregular or delayed through reasons beyond their control. Women are admitted to the Graduate Division, to Summer School and to Extension Courses.

*Clark is a member of the New England College Entrance Certificate Board and all New England principals certifying to Clark assume responsibility to that Board.*

### *Graduation*

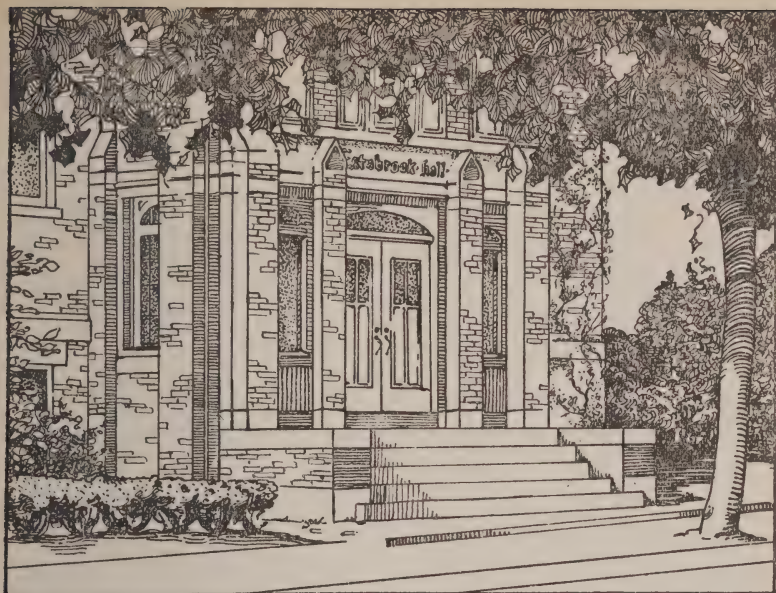
To obtain the degree of Bachelor of Arts a student is required to complete satisfactorily a total of 120 semester hours, exclusive of Physical Training; that is, the equivalent of five three-hour courses each semester for four years. *No student's work is regarded as satisfactory and entitling him to graduation unless he ranks above the lowest quarter of those passing in at least three-fifths of his courses.*

Students of ability are encouraged to finish the course in the shortest time consistent with good scholastic accomplishment. In furtherance of this a freshman is allowed to elect six courses on entrance and to continue with six as long as he averages in the upper half of his courses. A system of credit bonuses encourages high grade work.

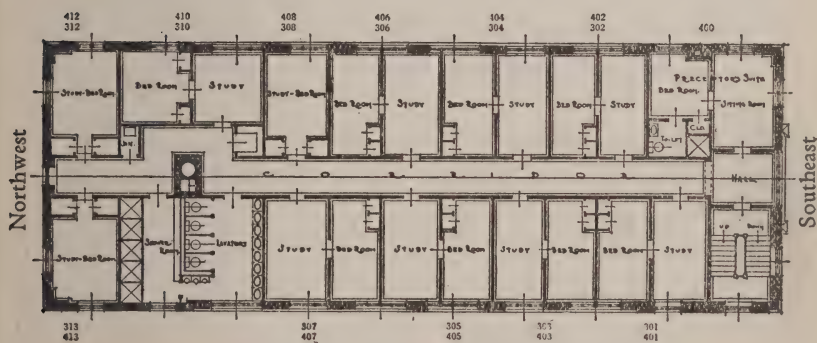
It is only fair to say that most students find five courses amply sufficient, particularly if they are interested in any extra-curriculum activity.

### *Tuition, Room, and Board*

The expense of tuition at Clark is kept at the relatively low figure of \$100.00 a semester, including \$10.00 for the support of various student activities. The cost to the University per



ENTRANCE TO ESTABROOK HALL, THE FRESHMAN DORMITORY



ESTABROOK HALL, THIRD FLOOR

The rooms on the fourth floor are arranged like those on the third except that the rooms over the preceptor's suite have no individual bath. Woodland Street extends along the southeast side of the building and Charlotte Street along the northeast side.

student, graduate and undergraduate together, is about \$750.00 a year. Tuition is kept so low because of the express desire of the founder that his generous endowment should be so used as to make an excellent college education available, so far as possible, to all deserving young men. At the request of the students and by direction of the Trustees, the Bursar collects \$5.00 additional each semester for the further support of student activities.

Other expenses are a \$5.00 matriculation fee and laboratory fees of \$5.00 a semester for science courses. The cost of books will approximate \$20.00 a year.

Undergraduates from out-of-town must board at Estabrook Hall and freshmen from out-of-town must room there. Board is \$7.50\* per week and room rent \$115.00 to \$150.00 per year for each occupant. The higher price is for a share of a two-room suite; the lower for a share of a single room. The rooms are furnished with a desk, chair, chiffonier, cot, mattress and pillow for each occupant. A deposit of \$25.00 is required as security against possible damage and to cover the cost of lighting. Students wishing to room together should so state, each making his own deposit. Rooms are reserved in order of application when accompanied by the deposit. The sketch on the preceding page shows the arrangement of the rooms.

### *Scholarships, Student Aid, and Self-Help*

No attempt will be made here to describe the fellowships and scholarships open to graduate students. Information concerning them may be obtained from the Registrar.

For undergraduates fifty Jonas G. Clark Memorial Scholarships are available for students of high academic standing, each yielding \$100.00. Twenty of these are awarded, on application, to entering freshmen who averaged in the upper quarter of their class for their preparatory school course. Of the freshman scholarships, eight are reserved for candidates from the

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\*May be raised to \$8.00 at any time.



Worcester High Schools and will be awarded preferably two to each of the four schools. These scholarships will generally be awarded early in August and applications must be received prior to that time to ensure consideration. For each of the three upper classes ten scholarships are reserved which may be granted to anyone averaging in the upper quarter of his class the preceding year.

Sufficient loan funds are available to allow the continuance in college of deserving students. Under normal conditions spare time employment can usually be found in the city. In view, however, of the time required for the regular work of the College, only the exceptional student should expect to earn more than a limited part of his expenses, and as a general rule at least \$500.00 should be at the disposal of any man beginning a college course, provided he cannot live at home.



JONAS G. CLARK HALL  
Main Recitation Building

## College Life Outside the Classroom

Although Clark stands uncompromisingly for the idea that the intellectual life of the institution as developed by reading, study, and in the classroom is the prime object of college and must at all cost be put first, it is believed that by proper planning of his time a student may find abundant opportunity for a reasonable amount of extra-curriculum activity as well; therefore such recreations are encouraged. There are monthly "Bohemians" in Jonas Clark Hall, and two formal "Proms." The College supports a thoroughly successful Glee Club and at times an Orchestra, trained by a professional Musical Director, and a very successful Dramatic Association coached by a member of the English Department who takes especial interest in this type of activity. Debating has for a long time been notably successful at Clark, and was for a number of years the only type of intercollegiate activity in which the students engaged. The students publish the *Clark Quarterly*, a magazine which gives opportunity for the publication of their literary productions. A weekly newspaper, *The Clark News*, is now in its





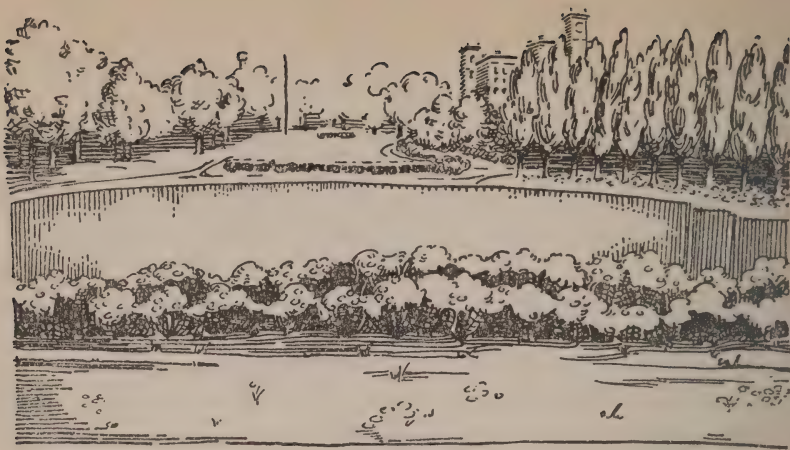
sixth year and serves also as a forum for the expression of college opinion. There are four local and two national Greek letter fraternities, and several special fraternities and organizations.

Admission to all plays is free to undergraduates; each student also receives without charge the *Quarterly* and the *News*.

Clark has participated in intercollegiate athletics since 1919. Rugby football is not played, but rapid advance has been made in soccer under competent coaching and the same is true of baseball. The new athletic field, already referred to, has added greatly to the pleasure of both contestants and spectators. Basketball is carried on through the winter months.

Because of the small enrollment at Clark, even those of modest athletic attainment may hope by consistent practice to become members of the varsity squads, with all the pleasures that attend such associations. The same is true of non-athletic activities. The result is that many modest young men, who would have been completely submerged in a large institution, have developed at Clark qualities of leadership which they would never otherwise have discovered that they possessed.





JONAS G. CLARK HALL FROM UNIVERSITY POND  
This pond is one of the City Parks



#### THE ANNUAL FRESHMAN-SOPHOMORE ROPE PULL

The opposing team of 25 men is on the other side of the pond, enjoying (?) the view shown at the top of the page. The losers will all follow the rope through the pond.

Words by  
E. Leonard '23

# SONS of CLARK

Music by  
Chas. Metcalf '22

Arr by D.W.H.

Ten 1  
4  
4  
Ten 2  
1. Down in New Eng---land Down in old Wor-ces-ter town,  
2. We love her Cam-----pus We love her vine clad walls.

Melody Bass 1  
4  
4  
Bass 2

Where songs of com-rades gay All sor-rows drown-  
We love each hap-py hour spent in her halls

Down where sweet breez-es blow Where flows of friend-ship grow,  
How, deep that love can flow How sweet those mem'ries grow;

There's where I long to go There I'll find Clark  
No one can ever---know, Save sons of Clark

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FOR FURTHER INFORMATION  
ADDRESS

*The Dean, Clark University  
Worcester, Massachusetts*

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ATHLETIC FIELD HOUSE

# CLARK UNIVERSITY ALUMNI FUND

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*First Annual Report*

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WORCESTER, MASSACHUSETTS, DECEMBER, 1931



*Published by the University in January, February, March, April, May  
June, October, November, and December*

Entered as second-class matter, December 29, 1920, at the postoffice at Worcester, Massachusetts, under the Act of August 24, 1912. Accepted for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

# Clark University Bulletin

NUMBER 89

PRICE 25 CENTS A YEAR

DECEMBER, 1931

## ALUMNI FUND BOARD REPORT FOR THE YEAR ENDING MAY 31, 1931

*To Clark Alumni wheresoever dispersed  
Greetings:*

Your Fund Board is pleased to make its first annual report of the Clark University Alumni Fund, because, with your loyal co-operation, we have made a very satisfactory start.

### WHAT WE HAVE ACCOMPLISHED

1. Opened a real working Alumni office.
2. Determined the number of Clark Alumni, and set up a live card index.
3. Started a revival of class spirit among A.B. Alumni.
4. Started re-organization of local Alumni groups. We hope this next year to have a dozen active approved local associations.
5. Written to more than one hundred ex-men, asking them to apply for election as active members of the Association.
6. Collected from two hundred ninety-eight Alumni, and four friends, more than two thousand dollars.
7. Secured an Alumni Secretary for next year who will give half time to Alumni work.

### FACTS TO CONSIDER

If the results of our first year seem small to you, please consider the following facts:

Starting with unbroken ground, we had to open an office and build an organization while we carried on our work.

With only the modest sum of money which we had asked the Trustees to guarantee for our expenses, we had to watch every penny.

Most of the work was done by one member of the Board, who gave three or four afternoons a week, with the help of a part-time stenographer.

In spite of these handicaps, in four short months we presented the plan to an Alumni totally uneducated in the gentle art of giving to

their University and secured contributions from eighteen per cent of the entire body.

Note the following figures taken at random from our files:

INSTITUTION	YEAR OF FUND	PER CENT CONTRB'TD
Clark Univ.	1st	18
Cornell Univ.	22nd	25
Northwestern Univ.	4th	16
Worcester Tech.	6th	35
Brown Univ.	17th	14

Also note the percentage of Alumni giving to the first year of other funds:

Brown	7	Vermont	8
Columbia	7	Dartmouth	15
Lafayette	8	Amherst	20

Study these figures as we have studied them, and you will understand why your Fund Board is proud of the loyal response of Clark Alumni to the first year's fund.

We approach the new year with confidence that the Clark Fund will match the history of every fund we have studied. Each year a larger number of Alumni will give. Each year the average contribution will increase. We hope you will help us to reach a five thousand dollar fund this year.

#### AND THEN

It may well be some years before the Clark Fund can make material contributions of money to the University. Our Alumni body is now small. Some day it will be large. But, if this fund plan is to attain a healthy growth, someone must care for it in its early life.

You and I can at least contribute annually the money needed to build a strong Alumni organization, so that, at some later date, a larger Clark Alumni, working as only an organized group can work, may annually make an important contribution.

Let us carry on.

#### The Alumni Fund Board

Leon E. Felton, *Chairman*  
 Allan B. Miller, *Treasurer*  
 Chas. E. Disney, *Secretary*  
 Lawrence A. Averill  
 Raymond T. Gifford  
 A. M. Hillman

## ANALYSIS OF CLARK UNIVERSITY ALUMNI

1891—1930

ALUMNI GROUPED FOR FUND				DEGREES RECEIVED FROM CLARK								
DEGREE	Total	Living Alumni		Dec.	A.B.	A.M.	Ph.D.	B.Ed.	A.B. & A.M.	A.B. & Ph.D.	A.M. & Ph.D.	TOTAL DEGREES GRANTED
		On List	Off List									
A.B.	979	894	45	40	796	156	3	1			23	979
A.M.	379	342	23	14	156	374	82	5		23		640
Ph.D.	325	282	12	31	3	82	243		23			351
B.Ed.	57	55	1	1	1	5		57				63
Totals	1740	1573	81	86								2033

This table is corrected to July 1, 1931

A.B. —Includes all who hold the A.B. degree from Clark

A.M. —Includes all who hold only A.M. degree from Clark plus 5 B.Ed. also

Ph.D. —Includes all who hold the Ph.D. degree from Clark except 26 A.B. also

B.Ed. —Includes all who hold only B.Ed. degree from Clark

# CONTRIBUTORS 1930-1931

## Ph. D.

Anderson, Lewis F.	07
Atwood, Rollin S.	28
Atwood, Wallace R.	30
Clark, Thomas H.	92
Cross, Hartley W.	29
Cunningham, Floyd F.	30
Dickinson, Hobert C.	10
Ekblaw, W. Elmer	26
Farnsworth, Albert	27
Gellermann, Louis W.	30
Gesell, Arnold	06
Goddard, Robert H.	10
Harvey, McLeod	11
Hudgins, Bert	30
James, Preston E.	23
Johannsen, Dorothea E.	29
Jordan, Edwin O.	92
Leuba, James H.	95
Mateer, Florence	16
Munn, Norman L.	30
Ridgley, Douglas C.	25
Schieber, Clara E.	20
Shipman, Julia M.	28
Snoddy, George S.	15
Switzer, J. Elmer	23
Taylor, Samuel N.	96
Thurber, Charles H.	00
Tupper, Eleanor	29
Van Cleef, Eugene	26
Varney, Burton M.	25
Williams, Frank B.	00
Young, J. W. A.	92

## A. M.

Aleck, Adolph W.	26
Arnos, Edward M.	08
Bell, Ruth E.	28
Bowden, Henry F.	27
Brooks, Elizabeth	17
Collamore, Edna A.	24
Conrad, Harold E.	29
Edman, Victor R.	30
Gregory, Elizabeth	30
Gueffroy, Edna M.	27
Guerin, Mary E.	15
Hanratta, Ann	28
Hart, Isabel K.	27
Helie, Euclid	08
Holzhauser, Carl F.	28
Imlah, A. H.	23
Johnson, Emil	25
Johnson, George E.	24
Libby, Paul O.	25
Lindley, Lester C.	29
Lloyd, Frank S.	24
Maher, Ellen A.	22
McDavitt, Neva	29
McNamara, Frank P.	08
Means, Margaret	29
Miller, (Mrs.) Newton	11
Muttart, William L.	14
O'Flynn, George B.	13
O'Leary, John B.	22
Peterson, Alice H.	27
Phinney, William I.	22
Power, Francis W.	17
Ratigan, John E.	23
Robertson, Ina C.	24
Silverman, Yetta	29
Smith, Pauline A.	10
Vinal, Ella L.	29
Waite, Mary A.	13
Wallace, Edith M.	07
Zeller, Rose	30

## A. B.

1905

Allen, George E.
Bender, William A.
Cushman, Roy M.
Disney, Charles E.
Fox, Michael B.
Garbutt, J. Ralph
Gates, Burton N.
Greenwood, Robert B.
Leland, Leslie P.
Lingley, Ralph G.
Madden, Leon I.
Miller, Allan B.
Miller, Charles W.
Parker, Waldo D.
Webb, Reginald L.

1906

Bacon, Charles W.
Belisle, Ferdinand J.
Coghlan, Samuel R.
Evans, William W.
Marble, Henry C.
Peckham, Albert J.

1907

Asher, Jacob
Felton, Leon E.
Hillman, A. M.
King, C. H. S.
Macklin, Paul M.
Mann, Henry C.
Mirick, George W.
Phelps, Lyman B.

1908

Dean, Ernest W.
Handy, LeRoy M.
Richardson, Carlton E.

1909

Barrows, George M.
Bent, Arnold A.
Boynton, Clarence N.
Bumpus, Samuel F.
Chase, Howard E.
Clare, Edward W.
Clarke, Edwin L.
LeSure, Harvey K.
Patterson, Thomas L.
Phelan, William F.
Shedd, Clarence P.

1910

Fenner, Harold L.
Foster, James K.
Hearn, George D.
Hinckley, Irving A.
Kadesch, J. Stevens
Luther, Robert H.
Morrow, Curtis H.
Ramsdell, Floyd A.
Rice, Allan G.
Schofield, Roger W.
Sheldon, Otis C.
Streeter, Robert J.
Wesson, Philip D.
Wheeler, Lucius B.
Woodbury, Robert M.

1911

Arnold, Ray D.
Cole, George E.
Jackson, Harry L.
Kirkpatrick, Robert
Loomis, Robert H.
Racine, Arthur R.

1912

Alexander, Forrest E.
Bemis, Samuel F.
Butler, Walter G.
Cody, Paul L.
Cummings, Charles H.
Dickie, H. Allan
Gaylord, Harding W.
Kimball, Ralph G.
Maynard, Leland C.
Oberg, Frank T.
Rasely, Hiram N.
Sarasohn, Israel J.
Sturtevant, Arnold P.
Towne, Ralph V.

1913

Anselmi, Adolph
Averill, Lawrence A.
Johnson, Frank L.
Moran, William T.
Nathanson, Joseph N.
Resnick, Samuel

1914

Ellis, Ralph W.
Parker, C. Conrad
Phelps, Everett L.
Tupper, Frank E.

1915

Albert, Harry
Fitchett, Seth M.
Forbush, Guy J.
Jacobs, Wilmarth I.
Pratt, Carroll C.
Smith, Lawrence
Stearns, George E.
Todd, Leonard C.
Woodbury, Harold D.

1916

Atwood, Leland L.
Brierly, John E.
Brigham, H. K.
Burnham, Guy H.
Gifford, Raymond T.
Judson, Lewis V.
Merriam, George H.
Morlock, George A.
Prince, Arthur L.
Sloan, Harold H.
Talamo, Haskell

1917

Bean, Francis J.
Clark, John B.
Illingworth, Robert S.
Leavitt, Joseph
Perrin, Lloyd W.
Stevenson, Eugene



1918  
 Beveridge, Willis C.  
 Brooks, Bernard F.  
 Flagg, A. Glennon  
 Hillman, Samuel I.  
 Jasen, Saul I.  
 Mattfield, Henry W.  
 Mellor, Earl G.  
 Mitchell, A. W.

1919  
 Brewster, Frank V.  
 Doolittle, Clyde B.  
 Ericson, Emil  
 Lange, Herbert F.  
 St. John, Abraham G.

1920  
 Barr, William J.  
 Greenall, Walter G.  
 Kalin, Jacob I.  
 Roope, Percy M.  
 Simmerer, H. Eugene  
 Taylor, Wilfred L.  
 Wahlstrom, Carl E.

1921  
 Bergquist, Albert G.  
 Eaton, Stacey E.  
 Landry, Paul E.  
 Russell, Edward D.  
 Seder, Saul A.  
 Shapiro, Harry I.  
 Signor, Henry L.

1922  
 Baker, George E.  
 Benjamin, Mendall  
 Campbell, Elmer I.  
 Howe, George F.  
 Parkes, A. W.  
 Sturtevant, Ralph E.

1923  
 Finkelstein, Herman  
 Goldberg, Joseph  
 Golden, Sherman E.  
 Higgins, Roger W.  
 Lyon, Leroy A.  
 White, Lester P.

1924  
 Hood, Everett W.  
 Price, Donald L.  
 Riffolt, Nils A.

1925  
 Dorward, Arthur R.  
 Geldard, Frank A.  
 Gladding, G. Roger

1926  
 Bassett, Walter G.  
 Dawson, George A.  
 Felt, William N.  
 Higginbottom, Edwin  
 Loungway, F. J.  
 Pitcher, Thornton L.  
 Smith, Louis V.  
 Swan, Paul R.  
 Weed, Bester C.

1927  
 Dow, Richard B.  
 Fitzgerald, John E.  
 Forsberg, R. W. A.  
 Goeller, Robert B.  
 Porter, Gordon D.

1928  
 Coty, Everett W.  
 Farrell, Wilfred R.  
 Goss, George L.  
 Laakso, Eino F.  
 MacGoech, John B.  
 Rattner, Harold  
 Rich, George B.  
 Whiting, Stanley H.

1929  
 Backlin, Everett E.  
 Bailey, Irving E.  
 Butler, Richard W.  
 Gervais, Roland E.  
 Grace, Sydney  
 Ringoen, Andrew

1930  
 Barber, William P.  
 Brady, Edward W.  
 Dobie, Albert J.  
 Erickson, Albert C.  
 Feinsilver, Oscar  
 Foxhall, Harry  
 Hollis, Walter  
 Levine, Robert  
 Mahony, Richard  
 Marchant, William E.  
 Southwick, Thomas E.  
 Wiel, Theodore A.  
 Williams, William L.  
 Wilson, Frank E.  
 Winter, Frederick O.

#### B. Ed.

Callahan, Mary J.	24
Callahan, Mary M.	28
Corfield, George S.	30
Curley, Elizabeth G.	29
Daley, Kathrine M.	29
Dewar, Margaret	30
Donnelly, Mary T.	30
Doyle, Catherine E.	30
Gray, Margaret V.	30
Grove, E. Viola	30
Hines, Agnes W.	30
Hodge, Thekla E.	24
Kelley, Alice E.	30
Maher, Margaret E.	27
McMurray, Mary D.	30
Merritt, Bessie A.	26
Mullaney, Catherine P.	26
Murphy, Theresa M.	28
Scannell, Agnes V.	25
Simmons, Anna E.	30
Stanton, Cora A.	28
Traynor, Catherine T.	30
Van Cleef, Frieda	26
Wilmouth, Irene F.	28

#### Friends

Atwood, Pres. Wallace W.  
 Atwood, Mrs. Wallace W.  
 Smith, Fanny R.  
 Class of 1931

## ALUMNI FUND—1930-1931

### FINANCIAL STATEMENT

#### RECEIPTS

Contributions .....	\$2,096.00
Interest .....	12.39

#### EXPENDITURES

Office equip. and supplies .....	\$122.42
Printing and mailing .....	378.96
Salaries .....	280.20
Alumni dues transferred .....	88.00

	\$869.58
Cash in Bank .....	1,238.81

\$2,108.39

\$2,108.39

# ANALYSIS OF CONTRIBUTIONS 1930-1931

<i>Degree</i>	<i>Living Alumni</i>	<i>No. Contrib.</i>	<i>Amt. Contrib.</i>	<i>Per Cent Contrib.</i>	<i>Aver. Contrib.</i>
A.B.	939	202	\$1452.00	21.3	\$7.19
A.M.	365	40	166.00	11.0	4.15
Ph.D.	294	32	259.00	10.9	8.09
B.Ed.	56	24	129.00	42.9	5.37
	<hr/> 1654	<hr/> 298	<hr/> \$2006.00	<hr/> 18.0	<hr/> \$6.73
Friends		4	90.00		
		<hr/> 302	<hr/> \$2096.00		

## ANALYSIS OF CONTRIBUTIONS FROM A.B. ALUMNI

<i>Class</i>	<i>Living Members</i>	<i>No. of Contrib.</i>	<i>Amount Contrib.</i>	<i>Per cent of Contrib.</i>	<i>Average Contrib.</i>
1905	40	15	\$105.00	37.5	\$7.00
1906	15	6	48.00	40.0	8.00
1907	14	8	205.00	57.1	25.63
1908	14	3	11.00	21.6	3.67
1909	28	11	108.00	39.3	9.82
1910	44	15	120.50	34.1	8.03
1911	33	6	51.00	18.2	8.50
1912	56	14	118.00	25.0	8.43
1913	40	6	70.00	15.0	11.67
1914	39	4	45.00	10.3	11.25
1915	33	9	50.00	27.5	5.56
1916	40	11	72.00	27.5	6.55
1917	28	6	60.00	21.4	10.00
1918	25	8	40.00	32.0	5.00
1919	26	5	20.00	19.2	4.00
1920	37	7	52.00	18.9	7.43
1921	55	7	53.00	12.7	7.57
1922	48	6	32.00	12.5	5.33
1923	40	6	14.00	15.0	2.33
1924	37	3	31.00	8.1	10.33
1925	26	3	9.50	11.5	3.17
1926	44	9	27.00	20.5	3.00
1927	32	5	14.00	15.6	2.80
1928	35	8	44.00	22.9	5.50
1929	55	6	21.00	10.9	3.50
1930	55	15	31.00	27.3	2.07
TOTALS	<hr/> 939	<hr/> 202	<hr/> \$1452.00	<hr/> 21.3	<hr/> \$7.19

## A MESSAGE FROM "GIFF"

*Dear Alumnus:*

This year will undoubtedly prove to be most successful as to Alumni activities. The results of the first campaign by the Alumni Fund Board have been very encouraging. The Board has been able to secure Bob Illingworth as Alumni Secretary, due to no small extent to President Atwood's influence and generosity. We have established the Alumni Secretary's office. With your help it will continue.

The institution has facilities to handle additional students. Bob is trying to increase interest. You can help. Send in the name of one prospect. Those in educational work can do even more. No institution ever offered better courses than those given at Clark University.

Already several excellent meetings have been held. October 17 the Worcester group gathering was surprisingly large. November 17 the New York meeting brought out more than fifty. A luncheon has been held in Boston preparatory to a large spring meeting. The Alumnae of Worcester County organized November 23. Other groups will be organized during the year. Your co-operation is solicited.

RAYMOND T. GIFFORD

*President, Alumni Association*

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### COMMENCEMENT

June 3-6, 1932

Alumni Day                      Saturday, June 4, 1932

Reunion Classes                1907, 1912, 1917, 1922, 1927, 1929, 1931.

Watch for full announcement later.

### SUMMER SCHOOL 1932

Monday, June 27—Friday, August 5, 1932

Courses in Geography, Geology, History,  
Economics, and English.

### FIDAC MEDAL AWARDED CLARK UNIVERSITY

Selected as one of the three American universities excelling in curricula of wide outlook, good will, and understanding in international affairs, Clark University was awarded the Fidac medal by the Federation Interallie des Anciens Combattants at Prague, Czechoslovakia, early in the fall.

Speakers at the presentation exercises which were held at Clark University were Vice-Commander Paul; Rear Admiral Ralph Earle, U. S. N. (retired), president of Worcester Polytechnic Institute; Professor George H. Blakeslee, head of the Department of History; and President Wallace W. Atwood, who accepted the medal, a gold plaque, on behalf of the University. Members of the Worcester Chapter Military Order of the World War, and the Worcester and the General Devens posts of the American Legion attended the exercises, which were recorded in sound pictures.

The award of the medal to Clark was made by the Fidac jury headed by Dr. Stephen P. Duggan, director of the Institute of International Education. Clark was selected as the outstanding university of an enrollment of under one thousand students whose curriculum excels in the promotion of international peace. The two other schools to receive the medal were Princeton University and Vassar College.

### PROFESSOR GEORGE H. BLAKESLEE CALLED TO WASHINGTON

In answer to a call from the United States Government, Professor George H. Blakeslee, head of the Department of History and International Relations, has temporarily left his duties, to act as advisor to the Department of State in the Sino-Japanese situation. Shortly after his arrival in Washington Professor Blakeslee was sworn in as an officer of the State Department in the Division of Far Eastern Affairs.

Professor Blakeslee is regarded as an authority on Oriental affairs. In his studies of the region he has frequently visited Manchuria and other parts of Asia. Three times he has been a delegate at conferences of the Institute of Pacific Relations, besides acting as visiting professor of international relations at various universities in the East. For the past several years he has led round table discussions on Eastern affairs at the Williamstown Institute of Politics.

### ALUMNI SECRETARY

Through your help the Fund Board has made a good start on its first objective. Professor Robert S. Illingworth, '17, is now Alumni Secretary on a half-time basis, and Associate Professor of English. Bob has already visited more than forty secondary schools, lecturing on topics of interest to prospective college students.

### NEW YORK ALUMNI DINNER

One of the most enthusiastic gatherings of the Alumni of Clark University ever held outside New England met for a banquet at the Fraternity Club, New York City, in November. Some sixty members were present.

The guest speakers were: President Wallace W. Atwood, Professor George H. Blakeslee, Charles E. Disney, '05, Robert S. Illingworth, '17, W. Clifford Ross, '32. Francis O. Graf, '26, presided.

### NEW PROFESSORS

Dr. Hudson Hoagland	Head, Biology Department
Dr. Henry D. Jordan	History Department
Mr. Ray A. Billington	History Department
Mr. Robert S. Illingworth	English Department
Mr. David M. Dougherty	Romance Languages
Mr. Albert C. Erickson	Physics Department

### FINE ARTS COURSE

The Fine Arts Course directed by Professor L. H. Dodd continues its most successful career. Tickets are at a premium before the course begins.

This year the following artists are scheduled:

Carola Goya	Sigmund Spaeth
Cornelia Otis Skinner	Doris Kenyon
R. Tait McKenzie	Christopher Morley
Clara Clemens	Harald Kreutzburg
Mary Wigman	Edith Barrett



# ALUMNI ATTENTION!

## *Clark Night*

Saturday, January 16, 1932

### 5—BIG ATTRACTIONS—5

It promises to be the best Clark Night ever held.

Keep the date in mind.

#### 1932 CLARK NIGHT PROGRAM

- 6:15 Banquet, Estabrook Hall.
- 7:15 Play, "An Hour After Dark." By Mrs. Lawrence Averill.  
Directed by John W. Oakes, '11.
- 8:15 Undergraduates "Glee Club Concert." Directed by Dean Hanscom.
- 8:45 Alumni Glee Club. Directed by William Gray Harris,  
featuring many of the old songs.
- 9-12 Dancing, Music by "Art Cannan" and his modern jazz  
orchestra.

No Alumnus should miss CLARK NIGHT this year.

Tickets \$1.50 apiece

Ralph Bartlett, (15)-20 Beeching Street, Tel. 3-5215, is Manager of the Alumni Glee Club.

# Clark University Bulletin

Catalogue Number



Worcester, Massachusetts

January, 1932



# Clark University Bulletin

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NUMBER 90

JANUARY, 1932

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## Catalogue Number

*The Catalogue is a record for the current academic year, 1931-'32. Such announcements for the year 1932-'33 as can be made at the time of publication are included.*

The Bulletin is published in January, February, March, April, May, June, October, November, and December

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Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917 authorized January 24, 1921.

## HISTORICAL NOTE

The University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Conscious of the meagerness of his own early educational opportunities, he devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. Mr. Clark died at Worcester on May 23, 1900.

The charter of the University was granted by the General Court of Massachusetts in 1887. The Graduate Division, with Granville Stanley Hall as president, received its first students in 1889. Special provision was made in Mr. Clark's will for the establishment of a collegiate Undergraduate Division with its own president but under the same general control as the Graduate Division. Carroll Davidson Wright was chosen president of the Undergraduate Division and students were first received in October, 1902. After the death of President Wright in 1909, Edmund Clark Sanford, then Professor of Psychology in the Graduate Division, was chosen as President of the college.

In June, 1920, Presidents Hall and Sanford resigned and Wallace Walter Atwood was elected to the presidency of both the Graduate and the Undergraduate Divisions of the University.

During the academic year 1920-21 the two faculties continued their separate organizations while plans for unification were being worked out. These plans, approved by the Board of Trustees, went into effect in 1921-22 and provided for the fusion of the two faculties into a single body.

With the election of President Atwood, provision was made for the establishment of a Graduate School of Geography, and work in that school was begun in the fall of 1921.

A Summer School with a six weeks' session has been conducted each year, beginning in 1921.



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## JULY

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# CALENDAR

The academic year begins on the Tuesday before the fourth Thursday in September. Commencement Day is the thirty-seventh Monday following (the first or second Monday in June).

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

## 1931

Sept. 22.	Tuesday	Academic year began. Registration day.
Oct. 12.	Monday	Columbus Day. Not a holiday.
Nov. 11.	Wednesday	Armistice Day. Not a holiday.
Nov. 21.	Saturday	Mid-semester reports.
Nov. 26.	Thursday	Thanksgiving Day. A holiday.
Dec. 19.	Saturday	Christmas recess begins at 1 P. M.

## 1932

Jan. 4.	Monday	Christmas recess ends at 8 A. M.
Jan. 20.	Wednesday	Semester examinations beginning at 2 P. M. Registration day for second semester.
Jan. 30.	Saturday	The first semester ends. Last day for receiving applications for undergraduate scholarships for the second semester.
Feb. 1.	Monday	Founder's Day. Not a holiday. The second semester begins.
Feb. 6.	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1932.
Feb. 10.	Wednesday	Last day for payment of term bills.
Feb. 22.	Monday	Washington's Birthday. A holiday.
Feb. 29.	Monday	Last day for receiving applications for graduate scholarships and fellowships for 1932-33.
Mar. 26.	Saturday	Mid-semester reports.
Apr. 2.	Saturday	Spring recess begins at 1 P. M.
Apr. 11.	Monday	Spring recess ends at 8 A. M.
Apr. 19.	Tuesday	Patriot's Day. Not a holiday.
May 14.	Saturday	Sub-Freshman Day. Not a holiday.
May 24.	Tuesday	Semester examinations begin at 2 P. M.
May 30.	Monday	Memorial Day. A holiday.
June 2.	Thursday	Last day of semester examinations.
June 3.	Friday	Dissertations and theses for the Ph.D. and M.A. degrees are due at the office of the Secretary of the Graduate Board at 9 A. M.

June 6.	Monday	Commencement Day.
June 27.	Monday	Summer School opens. Registration day.
July 2.	Friday	Last day for payment of Summer School tuition.
Aug. 4.	Thursday	Final Assembly of the Summer School at 8 P. M. Conferring of degrees.
Aug. 5.	Friday	Summer School closes.
Sept. 20.	Tuesday	Academic year begins. Registration day.
<del>Sept. 31.</del>	<del>Saturday</del>	<del>Last day for payment of term bills. Last day for changes in undergraduate programs.</del>
Oct. 1.		
Oct. 12.	Monday	Columbus Day. Not a holiday.
Oct. 31.	Monday	Last day for receiving applications for admission to candidacy for the degree of Doctor of Philosophy in June, 1932.
Nov. 11.	Friday	Armistice Day. Not a holiday.
Nov. 19.	Saturday	Mid-semester reports.
Nov. 24.	Thursday	Thanksgiving Day. A holiday.
Dec. 21.	Wednesday	Christmas recess begins at 6 P. M.
<b>1933</b>		
Jan. 5	Thursday	Christmas recess ends at 8 A. M.
Jan. 18.	Wednesday	Semester examinations begin at 2 P. M. Registration day for second semester.
Jan. 28.	Saturday	End of first semester. Last day for receiving applications for undergraduate scholarships for the second semester.
Jan. 30.	Monday	Second semester begins.
Feb. 1.	Wednesday	Founder's Day. Not a holiday.
Feb. 4.	Saturday	Last day for changes in undergraduate programs. Last day for receiving applications for admission to candidacy for the degree of Master of Arts in June, 1932.
Feb. 8.	Wednesday	Last day for payment of term bills.
Feb. 22.	Wednesday	Washington's Birthday. A holiday.
Feb. 28.	Tuesday	Last day for receiving applications for graduate scholarships and fellowships for 1933-34.
Mar. 25.	Saturday	Mid-semester reports.
Apr. 1.	Saturday	Spring recess begins at 1 P. M.
Apr. 10.	Monday	Spring recess ends at 8 A. M.
May 13.	Saturday	Sub-Freshman Day. Not a holiday.
May 23.	Tuesday	Semester examinations begin at 2 P. M.
May 30.	Tuesday	Memorial Day. A holiday.
June 1.	Thursday	Last day of semester examinations.
June 2.	Friday	Dissertations and theses for the Ph.D. and M. A. degrees are due at the office of the Secretary of the Graduate Board at 9 A. M.
June 5.	Monday	Commencement Day.



## BOARD OF TRUSTEES

FRANCIS H. DEWEY (1904)	Vice President and Treasurer Worcester, Mass.
HERBERT PARKER (1907)	South Lancaster, Mass.
ARTHUR P. RUGG (1910)	Worcester, Mass.
CHARLES H. THURBER (1913), President	Boston, Mass.
GEORGE H. MIRICK (1920), Secretary	Worcester, Mass.
FREDERIC B. WASHBURN (1925)	Worcester, Mass.
ALEXANDER H. BULLOCK (1926)	Worcester, Mass.
LEON E. FELTON (1930)	Worcester, Mass.

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

## ADMINISTRATIVE OFFICERS

President of the University and Director of the Graduate School of Geography	W. W. ATWOOD
Acting Librarian	EDITH M. BAKER
Dean of the College	H. P. LITTLE
Director of the Summer School	D. C. RIDGLEY
Director of Extension Courses	P. H. CHURCHMAN
Director of the Home Study Department	D. C. RIDGLEY
Registrar	C. E. MELVILLE
Bursar	FLORENCE CHANDLER

## UNIVERSITY STAFF

For Summer School Faculty see pages 88 and 89.

WALLACE WALTER ATWOOD, PH.D. 160 Woodland St.  
President, 1920-.

Professor of Physical and Regional Geography. Director of the Graduate School of Geography. Editor, *Economic Geography*.

B.S., University of Chicago, 1897; Fellow, Assistant, and Associate, 1899-1903; Ph.D., 1903; Instructor and Assistant Professor of Physiography and General Geology, 1903-10; Associate Professor, 1910-13. Instructor, Lewis Institute, Chicago, 1897-99. Instructor, Chicago Institute, 1900-01. Professor of Physiography, Harvard University, 1913-20.

Geologist, U. S. Geological Survey. Fellow, American Academy of Arts and Sciences. Member, Geological Society of America, American Antiquarian Society, Chicago Academy of Sciences and the Association of American Geographers. President, National Council of Geography Teachers, 1920-21. Foreign member, Swedish Anthropological and Geographical Society, Honorary Senator, University of Breslau. Member, National Parks Advisory Board, President, National Park Association, 1929.

LOUIS N. WILSON, LITT.D. 11 Shirley St.  
Librarian 1889-1929. Librarian Emeritus.

HENRY TABER, PH.D. 2 Pleasant Place  
Professor of Mathematics, 1903-21. Professor Emeritus.

WILLIAM HENRY BURNHAM, PH.D. Bancroft Hotel  
Professor of Education and School Hygiene, 1906-26.  
Professor Emeritus.

BENJAMIN SHORES MERIGOLD, PH.D. 17 Charlotte St.  
 Professor of Chemistry. Director of the Chemical  
 Laboratories.

Instructor in Chemistry, 1905-12, 1916-20; Professor, 1920.

Assistant Professor of Chemistry, Clark College, 1903-08; Professor, 1908-20.

A.B., Harvard University, 1896; Assistant in Chemistry, 1896-1900; A.M., 1897; Ph.D., 1901. Instructor in Chemistry, Worcester Polytechnic Institute, 1900-03.

\*FRANK BLAIR WILLIAMS, PH.D. 24 Loudon St.  
 Professor of Mathematics.

Scholar in Mathematics, 1897-98; Fellow, 1898-1900; Ph.D., 1900; Instructor, 1910-20; Professor, 1920.

Assistant Professor of Mathematics, Clark College, 1907-08; Professor, 1908-20.

C.E., University of Missouri, 1890; M.S., 1893; Teaching Fellow, 1892-93. Engineering Work, United States Government Surveys, 1890-92 and 1894; U. S. Asst. Engineer, 1895-97. Assistant Professor of Engineering, Union College, 1900-04; Professor of Engineering Mathematics, 1904-07.

GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D. 21 Downing St.  
 Professor of History and International Relations.

Instructor in History, 1905-11; Professor, 1911.

Instructor, Clark College, 1903-04; Assistant Professor, 1904-09; Professor, 1909-20.

A.B., Wesleyan University, 1893; L.H.D., 1923. Graduate student, Johns Hopkins University, 1893-94; Harvard University, 1898-1901; A.M., 1900; Parker Fellow, 1901-02; Ph.D., 1903. Student, Universities of Berlin, Leipzig, and Oxford, 1901-03. L.H.D., Williams College, 1930. Member of the Council of the American Antiquarian Society. Member of Technical Staff, American Delegation, Conference on Limitation of Armament, Washington, 1921-22. Visiting Carnegie Professor of International Relations to Universities in Japan, Australia and New Zealand, 1927-28.

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\*Absent on leave, second semester, 1931-32.

CHARLES BREWSTER RANDOLPH, PH.D. 10 Otsego Rd.  
Professor of German.

Professor of German, 1920-. Secretary of the Summer School, 1921. Director of the Summer School, 1921-24.

Instructor in Greek, Clark College, 1903-04; Instructor in Greek and Latin, 1904-05; Assistant Professor, 1905-10; Professor of Latin, 1910-18; Professor of Latin and German, 1918-20.

A.B., Wabash College, 1896. Graduate Student, Harvard University, 1901-03; A.M., 1902; Ph.D., 1905. Instructor in Greek and Latin, University of Illinois Preparatory School, 1897-1900. Student, University of Halle, 1900-01.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.  
Professor of Romance Languages, 1920-.

Assistant Professor of Romance Languages, Clark College, 1908-11; Professor, 1911-20.

A.B., Princeton University, 1896; A.M., 1903; Instructor in French, 1900-04. Master, Chestnut Hill Academy, Philadelphia, 1897-99. Student, Universities of Paris and Grenoble, 1899-1900, 1903-04. Instructor in French and Spanish, United States Naval Academy, 1904-05. Graduate Student, Harvard University, 1905-08; Instructor in Romance Languages, 1906-08; Ph.D., 1908. Visiting Lecturer in the University of Chicago, Summer Quarter, 1912.

HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.  
Professor of Greek and Latin, 1920-.

Instructor in Greek and Latin, Clark College, 1904-06; Assistant Professor, 1906-10; Assistant Professor of Greek, 1910-12; Professor of Greek, 1912-15; Professor of the Greek Language and Literature, 1915-20.

A.B., Amherst College, 1898. Master in Greek, Mercersburg Academy (Pennsylvania), 1898-99. Master in Greek, Lake Forest Academy (Illinois), 1899-1900. Sub-master, Boston Latin School, 1900-01. Graduate Student, Harvard University, 1901-04; Ph.D., 1904; Assistant in Ancient History, Harvard University, and Lecturer in Greek History, Radcliffe College, 1903-04.

\*LEROY ALLSTON AMES, A.M. 166 Woodland St.  
Professor of English Literature, 1920-.

Instructor in English Literature, Clark College, 1908-10; Assistant Professor, 1910-15; Professor, 1915-20.

A.B., Harvard University, 1896; Assistant in English, 1899-1900; Graduate Student, 1899-1901; A.M., 1901. Instructor in English, Browne and Nichols School, Cambridge, Mass., 1896-99; Worcester English High School, 1901-06; Noble and Grennough School, Boston, Mass., 1906-07.

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\*Absent on leave, second semester, 1931-32.

LORING HOLMES DODD, PH.D.

88 Sagamore Rd.

Professor of Rhetoric, 1920-.

Instructor in English, Clark College, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20.

A.B., Dartmouth College, 1900. A.M., Columbia University, 1901. Ph.D., Yale University, 1907. Instructor, Choate School, Wallingford, Conn., 1901-02. Instructor in English, St. Paul's School, Garden City, N. Y., 1907-10.

\*ROBERT HUTCHINS GODDARD, PH.D.

P. O. Box 976

Roswell, N. M.

Professor of Physics. Director of the Physical Laboratories.

Student in Physics, 1908-09; Fellow, 1909-11; A.M., 1910; Ph.D., 1911; Honorary Fellow, 1911-12, 1914-15, 1919-20; Instructor in Physics, 1916-18; Professor, 1920-.

Instructor in Physics, Clark College, 1914-15; Assistant Professor, 1915-19; Associate Professor, 1919-20.

B.S., Worcester Polytechnic Institute, 1908; Instructor in Physics, 1908-09. Research Instructor in Physics, Princeton University, 1912-13. Director of Research under U. S. Signal Corps, Worcester Polytechnic Institute and Mt. Wilson Observatory, 1918.

HOMER PAYSON LITTLE, PH.D.

156 Woodland St.

Professor of Geology and Dean of the College, 1922-.

A.B., Williams College, 1906. Fellow, Johns Hopkins University, 1909-10; Ph.D., 1910. Instructor and later Professor of Geology, Colby College, 1910-20. Lecturer in Geology, Bangor Theological Seminary, 1913, 1916, 1919. U. S. Geological Survey, 1907. Maryland Geological Survey, 1908-10. Instructor, Johns Hopkins Summer School, 1921. Executive Secretary, Division of Geology and Geography of the National Research Council, 1920-22.

SAMUEL J. BRANDENBURG, PH.D.

173 Woodland St.

Professor of Economics and Sociology, 1923-.

A.B., Miami University, 1904. Graduate Student, University of Illinois, 1908-09, and University of Chicago, 1905-09; Ph.M., University of Chicago, 1909. Professor of Economics and Librarian, Miami University, 1909-20. Graduate Student and Assistant, University of Wisconsin, 1920-22; Ph.D., 1922. Professor of Economics and Sociology, University of Arkansas, 1922-23. Visiting Lecturer in Economics, University of Texas, Summer, 1923.

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\*Absent on leave, 1930.



CARL MURCHISON, PH.D., Sc.D.

11 Downing St.

Professor of Psychology, 1923-.

Director of the Psychological Laboratories. Editor, *The Pedagogical Seminary and Journal of Genetic Psychology*; *Genetic Psychology Monographs*; *Journal of General Psychology*; *International University Series in Psychology*; Co-Editor, *Journal of Social Psychology*. Director of the Clark University Press.

A.B., Wake Forest College, 1909; Sc.D., 1930. Rumrill Fellow, Harvard University, 1909-10. Student, Rochester Theological Seminary, 1910-13; Student, Yale University, 1914-(Jan.)16. Assistant Professor of Psychology, Miami University, 1916-19; on leave 1917-19; 1922-23; Associate Professor, 1919-23. Instructor, Army School for Military Psychology, Camp Greenleaf, Georgia, 1918. Psychological Examiner and Camp Morale Officer, Camp Sherman, Ohio; Assistant, 1918-19; Chief, 1919. Johnstone Scholar, Johns Hopkins University, 1922-23; Ph.D., 1923.

\*ELLEN CHURCHILL SEMPLE, A.M., LL.D.

Professor of Anthropogeography.

Lecturer in Anthropogeography, 1921-22; Acting Professor, 1922-23; Professor, 1923-.

A.B., Vassar College, 1882; A.M., 1891. LL.D., University of Kentucky, 1923. Student, Leipzig University, 1891-92, 1895. Lecturer, University of Chicago between 1903-1923. Lecturer at School of Geography, Oxford University, England, summer terms 1912, and 1922. Ex-President, Association of American Geographers. Gold Medalist of American Geographical Society.

WILLIAM HOMER WARREN, PH.D.

166 Woodland St.

Professor of Organic Chemistry, 1925 (Feb.)-.

Assistant Professor of Chemistry, Clark College, 1911-12.

A.B., Harvard University, 1889; A.M., 1891; Ph.D., 1892. Instructor in Chemistry, Medical Department, Washington University, 1898-99; Assistant Professor, 1899-1900; Professor, 1900-11; Dean, 1908-11. Professor of Chemistry, Wheaton College, 1912-17. Captain, Q.M.C. and C.W.S., 1917-19. Research Chemist, 1919-25.

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\*Absent on leave. Died in Florida May 7, 1932

WALTER SAMUEL HUNTER, PH.D. 171 Woodland St.

G. Stanley Hall Professor of Genetic Psychology, 1925-.

Editor, *Psychological Abstracts*, *Psychological Index*.

A.B., University of Texas, 1910; Instructor in Philosophy, 1912-14; Adjunct Professor of Psychology, 1914-16. Ph.D., University of Chicago, 1912. Professor of Psychology, University of Kansas, 1916-25. Visiting Professor, Summer Session, Tulane University, 1915; State University of Iowa, 1920; University of Chicago, 1923, and 1930; University of California, Southern Branch, 1926; Northwestern University, 1927; First Lieutenant and Captain, Sanitary Corps, Psychology Division, U. S. A., September, 1917, to December, 1918; Visiting Professor, Harvard University, 1927-28 (first semester), 1928-29.

\*CHARLES FRANKLIN BROOKS, PH.D. 209 Lovell St.

Professor of Meteorology and Climatology.

Associate Professor, 1921-26; Professor, 1926-32 (Feb.).

A.B., Harvard University, 1911 (as of 1912); A.M., 1912; Research Assistant, Blue Hill Observatory, 1912-13; Assistant in Meteorology and Physical Geography, 1913-14; Ph.D., 1914. Assistant in Physical Geography, Radcliffe, 1914. Assistant in Farm Management, United States Department of Agriculture, 1914-15, 1917-18; Collaborator, 1915-16. Instructor in Geography, Yale University, 1915-18. Instructor in Meteorology. United States Signal Service, 1918. Meteorologist, United States Weather Bureau, 1918-21. Professor of Meteorology and Director of the Blue Hill Observatory, Harvard University, 1931-.

Secretary (1919-), and Editor American Meteorological Society. Member, International Climatological Commission.

DOUGLAS CLAY RIDGLEY, PH.D. 166 Woodland St.

Professor of Geography in Education.

Director of the Summer School. Director of the Home Study Department.

Lecturer and Honorary Fellow in Geography, 1922-23; Special Lecturer and Fellow, 1923-24; Ph.D., 1925. Associate Professor, 1924-27; Professor, 1927-.

A.B., Indiana University, 1893. High School Instructor and Principal, Chicago Schools, 1895-1903. Professor of Geography and Head of Department of Geography, Illinois State Normal University, 1903-22; on leave, 1921-22. Graduate Student, University of Chicago, 1921-22; M.S., 1922. Professor of Geography, First College Cruise around the World, 1926-27.

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\*First semester only.

WALTER ELMER EKBLAW, PH.D. Box 431, No. Grafton, Mass.

Professor of Geography.

Assistant Editor, *Economic Geography*.

Honorary Fellow in Geography, 1924-26; Ph.D., 1926; Associate Professor, 1926-28; Professor, 1928-.

A.B., University of Illinois, 1910; Research Fellow, 1910-13; A.M., 1912. Botanist and Geologist, Crockerland Arctic Expedition, 1913-17. Research Associate, American Museum of Natural History, New York, and Research Scholar, University of Illinois, 1917-20. Field Geologist, 1920-1924.

\*CLARENCE FIELDEN JONES, PH.D.

193 Lovell St.

Professor of Economic Geography.

Associate Editor, *Economic Geography*.

Assistant Professor, 1923-26; Associate Professor, 1926-28; Professor, 1928-.

B.S., University of Chicago, 1917; Assistant and Graduate Student, Department of Geography, 1919-23; Ph.D., 1923. Head of Department of Geography, State Normal School, St. Cloud, Minn., 1917-18. Instructor in Geography, Illinois State Normal University, Summer Session, 1920. Visiting Professor in Geography, Iowa State University, Summer Sessions, 1924 and 1925. Lecturer in Geography, Western Illinois State Teachers College, Summer Session, 1924. Visiting Professor of Geography, Wellesley College, first semester, 1930-31.

Member, Association of American Geographers.

HUDSON HOAGLAND, PH.D.

150 Woodland St.

Professor of Physiology and Director of the Biological Laboratories, 1931-.

A.B., Columbia University, 1921. M.S., Massachusetts Institute of Technology, 1924. Ph.D., Harvard University, 1927; National Research Fellow, 1927-28; Instructor in Physiology and tutor in Biology, 1928-30; Parker Fellow (in residence at Cambridge University, England), 1930-31; Special Lecturer, Cambridge University, England, 1930-31.

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\*On leave, first semester, 1931-32.

CAREY EYSTER MELVILLE, A.B.

16 Isabella St.

Associate Professor of Mathematics. Registrar.

Honorary Fellow in Mathematics, 1906-15; Associate Professor, 1920; University Registrar, 1922-.

Assistant in Mathematics, Clark College, 1906-09; Instructor, 1909-10; Instructor in Mathematics and Physics, 1910-11; Assistant Professor, 1911-14; Assistant Professor of Mathematics, 1914-18; Associate Professor, 1918-20; Registrar, 1914-22.

A.B., Northwestern University, 1901; Teaching Fellow in Mathematics, 1901-02. Graduate Student, Johns Hopkins University, 1902-03. Instructor in Mathematics, Case School of Applied Science, 1903-06.

VERNON JONES, PH.D.

6 Ripley St.

Associate Professor of Educational Psychology, 1926-.

Principal of High School, 1919. A.B., and A.M., University of Virginia, 1920; Teacher of Educational Psychology, Summer Term, 1924; Principal of Schools, 1920-23; A.M., Columbia University 1924; Associate in Education, 1925-26; Ph.D., 1926. Director of Research, Public Schools, Richmond, Virginia, 1924-25; Special Part-Time Lecturer, Teachers College, Columbia University, 1927-29. Visiting Professor, Summer Session, Columbia University, 1928, 1929. Visiting Professor, Summer Session, Ohio State University, 1930.

JAMES ACKLEY MAXWELL, PH.D.

23 Freeland St.

Associate Professor of Economics.

Instructor in Economics, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-.

A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927 (Feb.). Social Science Research Fellow, 1930-31.

\*ARTHUR FLETCHER LUCAS, PH.D.

166 Woodland St.

Associate Professor of Economics and Sociology.

Assistant Professor of Economics and Sociology, 1926-29. Associate Professor, 1929-.

A.B., Bates College, 1920. Instructor in Economics, Princeton University, 1920-22, 1924-26; Fellow in Economics, 1922-24; A.M., 1923; Ph.D., 1925; Professor of Economics, University of the South, Summer Quarter, 1928.

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\*Absent on leave, second semester, 1931-32.



DWIGHT ERWIN LEE, PH.D.

37 Clifton St.

Associate Professor of Modern European History.

Assistant Professor of Modern European History, 1927-30; Associate Professor 1930-.

A.B., University of Rochester, 1921; A.M., 1922; Assistant in History, 1921-22; Instructor, 1922-24. Graduate Student, University of Michigan Summer School, 1922. Graduate Student, Harvard University, 1924-27; Francis Parkman Fellow, 1925-26; Bayard Cutting Travelling Fellow, 1926-27; Ph.D., 1928 (Feb.). Research in Paris, London, and Vienna, 1924, 1925, and 1926-27.

PERCY MARTIN ROOPE, PH.D.

36 Richards St.

Associate Professor of Physics.

A.B., Clark College, 1920; Instructor in Physics, 1921-27; A.M., 1924; Honorary Fellow, 1924-25; Fellow, 1925-26; on leave, 1926-27; Ph.D., 1927; Assistant Professor, 1927-31; Associate Professor, 1931-.

Instructor in Physics, Kalamazoo College, 1920-21. Graduate Student, Massachusetts Institute of Technology, 1926-27.

HENRY DONALDSON JORDAN, PH.D.

20 Loudon St.

Associate Professor of English History, 1931-.

A.B., Harvard University, 1918; Graduate student, University of Chicago, 1919; Assistant in History, Harvard University, 1920-21; Austin Teaching Fellow, 1921-22; A.M., 1922; Bayard Cutting Travelling Fellow, 1922-23; Instructor in History and Tutor in the Division of History, Government and Economics, 1923-25; Ph.D., 1925. Assistant Professor of History, Dartmouth College, 1925-31. Fellow, the Guggenheim Foundation, 1930-31.

ROBERT STANLEY ILLINGWORTH, A.M.

152 Lovell St.

Associate Professor of English, 1931-.

A.B., Clark College, 1917.

Instructor in English, Lafayette College, 1917-19; Assistant Professor, 1919-23; Professor of English Speech and Dramatics, 1923-28; A.M., 1926. Headmaster, The Swavely School, 1928-31. Student, Harvard University Summer School, 1920. Student, Pennsylvania State College Summer School, 1929. Graduate Student, Harvard University Graduate School of Education, 1931.

SAMUEL VAN VALKENBURG, PH.D.

Associate Professor of Climatology and Regional Geography.

Special Lecturer in Geography, Clark University, second semester, 1926-27; Assistant Professor, 1927-29; Instructor in the Summer School, 1928; Associate Professor of Climatology and Regional Geography, 1932-.

Ph.D., University of Zürich, 1918. Assistant Professor, College of the City of Detroit, 1929; Associate Professor, 1930.



JESSE LUNT BULLOCK, A.M. 35 Downing St.  
Assistant Professor of Chemistry 1926-.

A.B., Harvard University, 1914; Graduate Student and Assistant in Chemistry, 1914-15; A.M., 1928. Industrial Research, The Calco Chemical Company and the Diamond Match Company, 1915-22. Chief Chemist, the Granton Chemical Company, 1922-24; Consulting Chemist, 1924-26.

GEORGE ELISHA BAKER, A.M. Estabrook Hall  
Assistant Professor of English. Proctor, Estabrook Hall.

A.B., 1922; Assistant in English, 1924 (Feb.-June); Instructor, 1925-27; Assistant Professor, 1927-.

Instructor in English, Dartmouth College, 1922-23. Instructor, Amherst, Mass., High School, 1923 (half year). Graduate Student, Harvard University, 1924-25; A.M., 1925.

HEINRICH MORANT BOSSHARD, PH.D. 22 Baker St.  
Assistant Professor of German, 1927-.

Ph.D., University of Zürich, Switzerland, 1919. Student, University of Grenoble, France, Summer Sessions, 1914 and 1916. M. Ed., Harvard University, 1921; Instructor in German, 1921-22, 1926-27. Assistant Professor of German, University of North Carolina, 1922-23. Study and travel, 1923-24. Instructor, Odenwaldschule, Oberhambach, Germany, 1924-26. Instructor, Harvard University, 1926-27.

DAVID POTTER, PH.D. 766 Main St.  
Assistant Professor of Biology.

Instructor in Biology, 1924-27; Assistant Professor, 1927-.

B.Sc., Massachusetts Agricultural College, 1916; Graduate Student and Assistant in Botany, 1921-23; M.Sc., 1923; Instructor in Biology, Albion College, 1923-24. Austin Scholar, Harvard University, 1929-30; Ph.D., 1931.

PAUL WALBERT SHANKWEILER, A.M. 25 Beaver St.  
Assistant Professor of Sociology, 1929-.

Ph.B., Muhlenberg College, 1919. A.M., Columbia University, 1921. Graduate, Union Theological Seminary, 1922. Instructor in New Trier High School, Winnetka, Illinois, 1923-25. Graduate Student, Northwestern University, Summer Session, 1927. Assistant Professor of Sociology, Birmingham-Southern College, 1927-28. Teaching Fellow in Sociology, University of North Carolina, 1928-29.

DAVID MITCHELL DOUGHERTY, A.M.

9 Baker St.

Assistant Professor of Romance Languages, 1931-.

Student at the University of Paris, 1923-24. A.B., University of Delaware, 1925. University Scholar, Graduate School of Arts and Sciences, Harvard University, 1925-26; A.M., 1927. Head of the Department of French, The Manlius School, 1926-28. Townsend Scholar in Romance Languages, Harvard University, 1928-29; Instructor in French and Tutor in the Division of Modern Languages, 1929-31. Student at French and Spanish Universities, summer of 1929. Instructor in Romance Languages, Massachusetts Institute of Technology, 1929-30. Instructor in Romance Languages, Boston University, 1930-31.

\*CLARENCE HENRY GRAHAM, PH.D.

Assistant Professor of Psychology, 1931-.

A.B., Clark University, 1927; A.M., 1928; Ph.D., 1930.

Instructor, Temple University, 1930-31. National Research Fellow, Johnson Foundation for Medical Physics, University of Pennsylvania, 1931-32.

WALLACE RICHARDS ATWOOD, PH.D.

160 Woodland St.

Assistant Professor of Physiography and Regional Geography.

A.M., Clark University, 1927; Assistant in Physiography, 1927-28; Ph.D., 1930; Assistant Professor of Physiography and Regional Geography, February, 1932-.

B.S., University of Chicago, 1926; Scholar in Geology, 1924-25. Swiss-American Exchange Fellow, University of Zürich, 1928-29. Student, The Sorbonne (Institut de Geographie), Paris, first semester, 1929-30. Educational Division, National Park Service, Washington, D. C., 1930-31.

RAY ALLEN BILLINGTON, A.M.

38 Whitman Rd.

Instructor in History, 1931-.

Ph.B., University of Wisconsin, 1926; Assistant in History, University of Michigan, 1926-27; A.M., 1927. Graduate Student, Harvard University, 1927-29; Derby Scholar and Perkins Scholar in History, 1928-29. Assistant in History, Harvard University and Radcliffe College, 1929-31.

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\*Absent on leave, 1931-32.

- ALBERT CLARENCE ERICKSON, A.M. 35 Olga Avenue  
Instructor in Physics, 1931-  
A.B., Clark University, 1930; A.M., 1931.
- JAMES BLAINE HEDGES, PH.D.  
Visiting Professor of American History, 1931-32.  
George L. Littlefield Professor of American History,  
Brown University.
- LEONARD CARMICHAEL, PH.D.  
Visiting Professor of Psychology, 1931-32.  
Professor of Psychology and Director of the Psy-  
chological Laboratory at Brown University.
- RUTH E. BAUGH, PH.D.  
Visiting Lecturer in Geography, first semester, 1931-32.
- CURTIS F. MARBUT, LL.D.  
Special Lecturer in Geography.
- RAYMOND ROYCE WILLOUGHBY, PH.D. 14 Reed St.  
Research Associate in Psychology.
- GUY H. BURNHAM, A.M. 19 Woodland<sup>man</sup> Rd.  
Cartographer, Graduate School of Geography.
- ERNEST RAYMOND WHITMAN 48 Downing St.  
Director of Physical Education.
- RALPH WARNER ELLIS, M.D. 574 Main St.  
Medical Director.
- FLORENCE CHANDLER 18 Downing St.  
Bursar.
- DEAN WINSLOW HANSCOM, A.B. Waban, Mass.  
Director of the Musical Clubs.
- JOHN W. BOARDMAN 15 Shirley St.  
Superintendent of Buildings and Grounds.

## STUDENT ASSISTANTS

*Biology*

CHARLES M. POMERAT  
HAROLD H. PERLENFEIN, A.M.

*Chemistry*

WILFRED R. ARICK, A.B.  
MARSHALL G. CLARK, A.B.  
GUY S. HERRICK, B.S.  
ELMER L. SWETT, A.B.

*Economics and Sociology*

WALTER L. JOHNSON, A.B.  
THOMAS KINSELLA, A.M.  
ARTHUR T. SUTHERLAND, A.B.

*Geography*

PHIL E. CHURCH, B.S.  
LAWRENCE F. FOUNTAIN, M.S.

*Geology*

ARCHIE H. BIRON

*History and International Relations*

I. CHESTER BLAND, A.M.  
VICTOR R. EDMAN, A.M.  
GERALD M. KENDALL, A.M.  
HUGH M. MORRISON, A.M.

*Physics*

ARTHUR R. KNOX, JR.

*Physical Training*

RONALD G. THOMSON, B.S.  
HOWARD G. WHITMAN

*Psychology*

BARRY CASPER, A.M.  
NATHAN GOLDMAN, A.M.  
CLARENCE V. HUDGINS, A.M.  
HARRY W. KARN, JR., A.M.  
CLAUDE C. NEET, A.B.

# GOVERNING BOARDS AND COMMITTEES

## THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the University and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Charles B. Randolph.

## THE UNIVERSITY SENATE

An advisory board appointed by the President

President Wallace W. Atwood, *ex officio*

George H. Blakeslee	W. Elmer Ekblaw
Samuel J. Brandenburg	Walter S. Hunter
Philip H. Churchman	Homer P. Little
Loring H. Dodd	Benjamin S. Merigold
Carl Murchison	

## THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division of the University and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Wallace W. Atwood, *ex officio*

George H. Blakeslee	Clarence F. Jones
Samuel J. Brandenburg	H. Donaldson Jordan
Charles F. Brooks	Dwight E. Lee
W. Elmer Ekblaw	James A. Maxwell
Robert H. Goddard	Benjamin S. Merigold
Hudson Hoagland	Carl Murchison
Walter S. Hunter	William H. Warren

Carey E. Melville, *Secretary*



## THE COLLEGE BOARD

The College Board consists of the President, the Dean of the College, the Registrar of the College and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division subject to the direction of the Faculty and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Wallace W. Atwood	} <i>ex officio</i>
College Dean Homer P. Little	
Registrar Carey E. Melville	
Jesse L. Bullock	David Potter
Vernon Jones	Douglas C. Ridgley
James A. Maxwell	Percy M. Roope

## THE COMMITTEE ON EXTENSION COURSES AND SPECIAL STUDENTS

The Committee exercises general supervision over extension courses and over special students including candidates for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Wallace W. Atwood, <i>ex officio</i>	
Philip H. Churchman, <i>Chairman</i>	
Samuel J. Brandenburg	Homer P. Little
Vernon Jones	Carey E. Melville, <i>Secretary</i>
Douglas C. Ridgley	

## THE COMMITTEE ON THE SUMMER SCHOOL

President Wallace W. Atwood, <i>ex officio</i>	
Director of the Summer School, Douglas C. Ridgley	
George H. Blakeslee	Carey E. Melville
Samuel J. Brandenburg	

## THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

George H. Blakeslee	Homer P. Little
Samuel J. Brandenburg	Carey E. Melville
Benjamin S. Merigold	

## STANDING COMMITTEES OF THE GRADUATE BOARD

### THE COMMITTEE ON CREDENTIALS

The Committee passes upon applications for admission to the graduate divisions and makes recommendations to the Graduate Board in respect to Fellowships and Scholarships and candidacy for graduate degrees.

President Wallace W. Atwood, *ex officio*

Charles F. Brooks, *Chairman*

George H. Blakeslee

Samuel J. Brandenburg

Carl Murchison

### THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The Committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

President Wallace W. Atwood, *ex officio*

Philip H. Churchman, Professor of Romance Languages

Charles B. Randolph, Professor of German

A representative of the student's major department.

## STANDING COMMITTEES OF THE COLLEGE BOARD

### THE COMMITTEE ON ADMISSIONS

President Wallace W. Atwood

Dean Homer P. Little, *Chairman*

Registrar Carey E. Melville

Samuel J. Brandenburg

} *ex officio*

Benjamin S. Merigold

### THE COMMITTEE ON CURRICULUM

President Wallace W. Atwood

Dean Homer P. Little

Registrar Carey E. Melville, *Chairman*

Leroy A. Ames

} *ex officio*

Dwight E. Lee

Philip H. Churchman

## THE COMMITTEE ON ATHLETICS

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
James A. Maxwell		Ernest R. Whitman
David Potter		Frank B. Williams

## THE COMMITTEE ON AUTHORIZED EXCURSIONS

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Charles F. Brooks		Carey E. Melville

## COMMITTEE ON STUDENT FINANCE

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Charles B. Randolph, <i>Chairman</i>		
James A. Maxwell		Ernest R. Whitman
Frank B. Williams		

## COMMITTEE ON THE STUDENT ACTIVITIES FUND

Guy H. Burnham, <i>Chairman</i>		
Dwight E. Lee		Ernest R. Whitman

## COMMITTEE ON SOCIAL AFFAIRS

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Leroy A. Ames, <i>Chairman</i>		
Charles B. Randolph		William H. Warren

## COMMITTEE ON FRATERNITIES

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Frank B. Williams, <i>Chairman</i>		
Dwight E. Lee		Arthur F. Lucas

## COMMITTEE ON PUBLICATIONS

President Wallace W. Atwood	}	<i>ex officio</i>
Dean Homer P. Little		
Haven D. Brackett, <i>Chairman</i>		
Heinrich Bosshard		Percy M. Roope

# THE UNIVERSITY

## THE LOCATION

Clark University is located in Worcester, Massachusetts, an industrial and educational center with a population of about two hundred thousand. It is distant about forty miles from Boston and from Providence, and about two hundred miles from New York City.

Situated at the eastern border of the Central Massachusetts upland at an altitude of nearly six hundred feet above sea level, excessive humidity is seldom experienced and the climate is bracing.

## GROUNDS AND BUILDINGS

The University Campus is a tract of about eight acres bounded by Main, Woodland, Maywood, and Downing Streets, about a mile and a quarter from the City Hall. Here the principal buildings are located. Besides this tract, the institution owns the athletic grounds between Maywood and Beaver Streets, where the tennis courts are located, the athletic field of about six acres at the corner of Park Avenue and Beaver Street, about five minutes walk from the University, the land on the corner of Woodland and Charlotte Streets, where Estabrook Hall is located, the adjacent Fanning estate and other property opposite the campus on Woodland Street, the Hadwen Arboretum on Lovell Street, and several other dwellings occupied by members of the staff. The residences of the President and of the Dean of the College are on Woodland Street, opposite the Campus.

## ORGANIZATION

The University includes :

THE UNDERGRADUATE DIVISION offering a general college course leading to the degree of Bachelor of Arts.

THE GRADUATE DIVISION offering advanced instruction leading to the degrees of Master of Arts and of Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering special training leading to higher degrees in Geography.

THE SUMMER SCHOOL offering both undergraduate and graduate instruction with special reference to candidates for the degree of Bachelor of Education.

THE EXTENSION DIVISION offering courses at the University in the late afternoon, evenings, and on Saturday, with special reference to the needs of candidates for the degree of Bachelor of Education.

THE LIBRARY with its separate endowment, offering unusual opportunities for study and research.

THE DEPARTMENTS at present offering courses of study are:

1. Ancient Languages and Literatures
2. Biology
3. Chemistry
4. Economics and Sociology
5. English Language and Literature
6. Geography
7. Geology
8. German Language and Literature
9. History and International Relations
10. Mathematics
11. Physics
12. Psychology and Education
13. Romance Languages and Literatures

### THE ACADEMIC YEAR

The academic year begins on the Tuesday before the fourth Thursday in September, and Commencement Day is the thirty-seventh Monday following (first or second Monday in June). The first semester ends on the Saturday before the nineteenth Monday, and the second semester begins on the nineteenth Monday of the academic year. There are two recesses during the college year: two weeks including Christmas and New Year's Day; and the first full week in April. University exercises are suspended also on Thanksgiving Day, Washington's Birthday, and Memorial Day.



The Summer School begins on a Monday near the first of July and continues in session for six weeks.

*Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.*

## ADMISSION

Three classes of students are admitted :

1. Undergraduates. For requirements see announcement of the Undergraduate Division, page 42.

2. Graduate students. For requirements see announcement of the Graduate Division, page 58.

3. Special students. (a) Mature persons, not candidates for a degree, who wish to take advantage of the opportunities for study afforded by the University, and who give satisfactory evidence of adequate preparation for the work which they wish to undertake. (b) Students who are candidates for the degree of Bachelor of Education. For requirements see announcement, page 92.

Requests for information and for application forms should be addressed to the Registrar.

## REGISTRATION

The first day of the academic year and of the summer session is devoted to the registration of programs of study. Registration for the second semester is required not later than the eleventh day (Wednesday) before the beginning of the semester.

*Failure to register at the time designated is penalized, in the case of undergraduates, by a fine of one dollar for each day's delay up to a maximum of five dollars.*

## TUITION AND FEES

### TUITION

The tuition in the Undergraduate and Graduate Divisions is \$200 per year. In addition to the tuition the University collects from each undergraduate five dollars each semester for the support of "student activities." Special Students and others carrying small programs are charged at the rate of \$40 for a course meet-

ing one hour weekly through the year, and \$20 for each additional hour per week through the year. Tuition is payable in two equal installments. These installments are due at the beginning of each semester. If the tuition is not paid within ten days after it is due the enrollment of the student lapses. A student whose enrollment has lapsed for non-payment of tuition may be re-enrolled, with permission of the proper administrative officer on payment of the overdue tuition with an additional fee of \$2.

Tuition in the Summer School is \$20 for a single course and \$35 for two or more courses. Tuition may be paid at any time before the opening of the Summer School, and must be paid by noon of the first Saturday of the term.

Tuition in special courses for teachers is \$8.00 for a course meeting one hour per week for one semester and \$15 for a course meeting two hours a week for one semester.

The following regulation was accepted by the Trustees at a meeting held March 28, 1931.

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

#### MATRICULATION FEE

A matriculation fee of \$5 is required of all students formally enrolled in Clark University. This is paid but once, and permits a student to return successive years, or after a period of absence, without any further charge for matriculation. This fee is paid also by students who register for the Summer School.

Students enrolled in Home Study courses and "auditors" are not required to matriculate.

*Official statements of record are issued by the Registrar of the University for matriculated students only.*

#### LABORATORY FEES AND DEPOSITS

Laboratory fees are charged at the rate of \$5.00 each semester for undergraduate laboratory courses.

A deposit of \$10 for each course, to cover breakage, is required of students taking undergraduate laboratory work in Chemistry.

Any balance remaining at the end of the year is returned on application, and if the deposit is not sufficient to cover breakage, any excess is collected by the Bursar.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of \$25 is required of each graduate student in the Department of Chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

Laboratory fees and deposits for breakage are due at the time of registration for the courses.

### PUBLICATION FEES

Publication fees, \$10 for the Master of Arts thesis and \$15 for the Doctor of Philosophy dissertation, are due when applications for admission to candidacy are filed.

### DIPLOMA FEES

Diploma fees are charged according to the following schedule:

For the Bachelor of Arts or the Bachelor of Education diploma, \$5.00. These fees are due at the beginning of the second semester of the year in which the candidate expects to receive the degree.

For the Master of Arts diploma, due when applications for admission to candidacy are filed, \$10.00.

For the Doctor of Philosophy diploma, due when applications for admission to candidacy are filed, \$25.00.

### DINING HALL AND DORMITORY

Board at the Dining Hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is \$7.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the Dining Hall.

Estabrook Hall, (See cut and floor plan, pages 40-41) the undergraduate dormitory completed in 1924, provides accommodations for about fifty students at a cost of \$150 a year each for two students in a suite of two rooms, or \$115 each for two in one

room. Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit \$25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, when the key to the room is surrendered to the Bursar.

Freshmen not living in their own homes are required to room in Estabrook Hall. Rooms not required for freshmen may be rented by upper classmen or by graduate students. Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of \$25. Students who indicate a desire to room together will be accommodated whenever possible.

The University also has dormitory accommodations for a small number of graduate students. Lodgings may be secured in private houses within convenient distance from the campus at a reasonable cost.

### OTHER EXPENSES

In addition to the fees and other charges enumerated above, students will find that the necessary expenses of living in Worcester are comparable with similar costs in any large city. The total is largely dependent upon the individual's habits and tastes.

The cost of books varies with the programs of study. The University maintains a bookstore which is operated without profit in order to reduce the cost of text-books and supplies.

### FELLOWSHIPS, SCHOLARSHIPS AND LOANS

Fellowships and scholarships for graduate students are available as stated in the announcement of the Graduate Division, page 58.

Undergraduate scholarships are available as stated in the announcement of the Undergraduate Division, page 42.

Loans and other grants are also available from various special funds specifically designated for either graduate or undergraduate students and from the Sarah M. Thurber Loan Fund to both graduates and undergraduates.

### HEALTH AND PHYSICAL TRAINING

The Medical Director, Doctor Ralph W. Ellis, exercises gen-



eral supervision over matters of health and hygiene in the University. For undergraduates a thorough medical examination is required at the beginning and end of each year. Three hours per week of physical training are required of all who are not excused for adequate reasons. Medical examinations and physical training are optional with graduate students.

The Medical Director is available during the academic year for conferences and medical advice. It is intended that his services shall be primarily of a preventive nature. The University does not conduct an infirmary and does not undertake to care for cases of illness requiring medical attention or hospital accommodations, although it will co-operate in every possible way in meeting such emergencies.

The Director of Physical Education has supervision over all required physical training and other athletic activities. In the matter of intercollegiate contests he is assisted by the Committee on Athletics of the Faculty.

The University has two athletic grounds. The smaller one lies across Maywood Street from the campus and includes tennis courts and a cinder running track about an eighth of a mile in length. The large athletic field, secured in 1924, is located at the corner of Beaver Street and Park Avenue, about five minutes' walk from the University.

The gymnasium is located on the ground floor of Jonas G. Clark Hall. Individual steel lockers and an ample number of shower baths are provided.



# THE LIBRARY

EDITH M. BAKER, *Acting Librarian*

HELEN J. ELLIOT, *Cataloguer*

## *Assistants*

DOROTHY M. DICKINSON

EMILY C. KELLEY

MARION HENDERSON

EDITH L. SAWYER

## *Student Assistants*

L. A. FOX

W. SALMINEN

The Library under the terms of Mr. Clark's will received one quarter of his estate for the "support and maintenance of a University Library." Thus the Library is well endowed and is able to provide amply for the needs of all departments.

The Library is situated on the corner of Main and Downing streets. A full description of the building and of the Proceedings at the Public Opening which was held January 14, 1904, will be found in the Publication of the Clark University Library for April, 1904 (Vol. 1, No. 3).

The Library contains over 139,000 bound volumes and pamphlets, and the reading room receives about 500 journals.

The books are grouped as follows:

A	Works of General Reference	L	Biography
B	Journals	M	Anthropogeography
C	Mathematics	N	Education
CD	Mathematics-Physics	O	General Science
D	Physics	P	History
DE	Physical Chemistry	R	Political and Social Science
E	Chemistry		Economics
F	Biology, Zoölogy, Botany,	S	English
	Physiology, Neurology	T	Modern Languages
G	Geography	U	Classics
H	Pathology	W	Practical Arts
I	Psychology	X	Library Science
J	Philosophy	Y	Art
K	Religious Psychology	Z	European War

Tuesday and Friday mornings, each week, all books recently added to the Library are placed upon a table in the reference sec-

tion, where they remain for three days. This affords the members of the University an opportunity to examine the new books in all departments before they are placed upon the shelves for circulation.

Particular attention is paid to the needs of students engaged in research work. The Library already possesses a good collection of complete sets of the best scientific periodicals. It makes liberal purchases for individual needs and supplements these by drawing upon the resources of the older and larger libraries through the inter-library loan system. The number of books added each year is about four thousand volumes.

The books in the Art Department are accessible on application to the Librarian, but, by the terms of the Founder's will, they *cannot* be taken from the building.

All the privileges of the Library are open to all members of the University.

The Library is open from 8 a. m. to 10 p. m. each week day (except on legal holidays), during the regular sessions of the University and during the Summer School session.

#### ART DEPARTMENT

In his last will and testament the Founder of the University bequeathed

"the sum of \$100,000, as an endowment fund for the Art Department of said University, and said sum is to be held and kept sacred and intact as a principal not to be used or expended under any conditions; but the income, interest or proceeds thereof shall be used only in putting and keeping said works of art or others given or obtained for said department in good condition and in taking care of them; and then if there is a surplus of the income of said fund, I will and direct that it be used in the purchase of additional works of art or of such matters as will add to the usefulness and efficiency of said Art Department."

Under these conditions a large room has been furnished and equipped on the upper floor of the Library Building. Upon the death of Mrs. Clark, those works of art of the Founder's collection which were deemed most suitable for this purpose were arranged and displayed in this room, together with his most valuable books, which by the conditions of the will, cannot be removed from the

building. A complete catalogue of these books and paintings has been published in the Publication of the Library, Vol. 2, No. 1.

The Art Department is open daily (except Sundays and holidays) from 9 a. m. to 5 p. m.

Five portraits and two landscape paintings have been added to the collection :

1909. Portrait of the late Carroll D. Wright, president of Clark College from 1903 to 1909, by the late Frederick P. Vinton of Boston.

This painting was awarded the Temple Gold Medal at the 1909 Exhibition of the Pennsylvania Academy of Fine Arts.

1911. Portrait of G. Stanley Hall, president of Clark University from 1888 to 1920, by the late Frederick P. Vinton of Boston.

1913. Landscape painting, "Snowing," by Joseph H. Greenwood of Worcester.

1914. Portrait of Edmund C. Sanford, president of Clark College from 1909 to 1920, by Joseph De Camp of Boston.

1921. Portrait of Augustus George Bullock, member of the Board of Trustees from 1901 to 1926 and president of the Board from 1905 to 1919, by Leslie P. Thompson of Boston.

1925. Portrait of Wallace W. Atwood, president of Clark University since 1920, by John C. Johansen of New York.

1926. Landscape painting, "Sugar Loaf Mountain, Deerfield, Mass.," by Colin A. Scott. Dr. Scott was Fellow in Psychology at Clark, 1894-1896, and received the Ph.D. degree June 30, 1896.

To commemorate the twenty-fifth anniversary of the University the Board of Trustees, early in 1914, commissioned Mr. Victor D. Brenner of New York to prepare a medal to mark that event. The medal is made of bronze and is three inches in diameter. On the obverse side is delineated the head of President G. Stanley Hall, and on the reverse a beautiful allegorical group symbolizing the spirit of the University and the legend.

"Knowledge is proud that he has learned so much,  
Wisdom is humble that he knows no more."

Scale models of the buildings and the University grounds have been made by T. J. McAuliffe and Sons, of Worcester, under the direction of the architects, Messrs. Frost and Chamberlain.

Shortly before his death, Dr. Sanford gave the Art Department a silver vase bearing an etching of Fuji-Yama and inscribed, "To Dr. E. C. Sanford from Nakanishi and Kakise, Tokio, 1921."

# THE CLARK UNIVERSITY PRESS

CARL MURCHISON, *Editor and Director*

LUBERTA HARDEN, *Assistant Editor*

JEANNETTE CUTLER, *Secretary* GLADYS GUNDERSEN, *Bookkeeper*

IRENE TISDELL, *Proofreader* BEULAH S. NEET, *Editorial Asst.*

The Clark University Press was established in the spring of 1927, immediately after Dr. Murchison's return from England where a formal agreement with the Oxford University Press had been entered into whereby books published by the Clark University Press would, under certain conditions, bear the imprint of the Oxford University Press.

The Clark University Press, not being a service department of the University, is not responsible for routine printing or routine publication, but is interested exclusively in the publication of the highest type of scholarly research. It is self-supporting and occupies no place in the annual budget of the University. Its salaries and other expenses are borne entirely out of income from the sale of publications. It is controlled by a Board of Governors appointed by the Trustees of the University.

Up to the present time, the publications of the Clark University Press have been exclusively in the field of psychology. This has been true because the professional contacts of those primarily interested in the Press have been in this field and also because this field offers a stable, established market for publication. The above two explanations exist very largely as the result of the history, psychological traditions, and psychological prestige of Clark University. As time passes, the University may be interested in adding other fields to the publications of the Clark University Press, but such addition must of necessity wait until such fields have met the above conditions or until necessary funds should become available.

The Clark University Press is a part of Clark University because of the personal interests of its Editor, of the President of the University, and of certain members of the Board of Trustees



of the University. Any financial investments made in the Press by the University have been very nominal and pay the University the same interest rate received from other endowment funds. Beginning at almost nothing, the sales receipts of the Press have increased until they now average several thousand dollars per month.

The following journals and books are published by the Clark University Press:

## JOURNALS

PEDAGOGICAL SEMINARY AND JOURNAL OF GENETIC PSYCHOLOGY.

Subscription \$7.00 per volume. Two volumes per year, 500 pages each. Edited by Carl Murchison and an international co-operating board consisting of twenty-eight psychologists. Quarterly. Child behavior, animal behavior, and comparative psychology. Founded 1891.

GENETIC PSYCHOLOGY MONOGRAPHS.

Subscription \$7.00 per volume. Two volumes per year, 500-600 pages each. Edited by Carl Murchison and an international co-operating board consisting of twenty-eight psychologists. Monthly. Each number one complete research. Child behavior, animal behavior, and comparative psychology. Founded 1925.

JOURNAL OF GENERAL PSYCHOLOGY.

Subscription \$7.00 per volume. Two volumes per year, 500 pages each. Edited by Carl Murchison and an international co-operating board consisting of thirty-two psychologists. Quarterly. Experimental, theoretical, clinical, and historical psychology. Founded 1927.

JOURNAL OF SOCIAL PSYCHOLOGY.

Subscription \$7.00. 500-600 pages annually. Edited by John Dewey, Carl Murchison, and an international co-operating board consisting of twenty-three psychologists. Quarterly. Political, racial, and differential psychology. Founded 1929.

## BOOKS

PSYCHOLOGIES OF 1925.

By nine psychologists. Edited by Carl Murchison. \$6.00, *postpaid*. First edition, 1926; second edition, 1927; third edition, 1928.



PSYCHOLOGIES OF 1930.

By twenty-four psychologists. Edited by Carl Murchison. \$6.00, *postpaid*. Published 1930; reprinted 1931.

CRIMINAL INTELLIGENCE.

By Carl Murchison. \$4.00, *postpaid*. Published 1926.

THE CASE FOR AND AGAINST PSYCHICAL BELIEF.

By fourteen authors. Edited by Carl Murchison. \$3.75, *postpaid*. Published 1927.

FEELINGS AND EMOTIONS: THE WITTENBERG SYMPOSIUM.

By thirty-four psychologists. Edited by Martin L. Reymert, Wittenberg College. \$6.00, *postpaid*. Published 1928.

SOCIAL PSYCHOLOGY: THE PSYCHOLOGY OF POLITICAL DOMINATION.

By Carl Murchison. \$3.50, *postpaid*. Published 1929.

THE COMMON SENSE OF DREAMS.

By Henry J. Watt, *Late Lecturer in Psychology in the University of Glasgow, and Late Consulting Psychologist to the Glasgow Royal Asylum*. \$3.00, *postpaid*. Published 1929.

THE FOUNDATIONS OF EXPERIMENTAL PSYCHOLOGY.

By twenty-three psychologists. Edited by Carl Murchison. \$6.00, *postpaid*. Published 1929; reprinted 1930; revised edition 1932.

THE PSYCHOLOGICAL REGISTER, Volume I.

Edited by Carl Murchison. In preparation.

THE PSYCHOLOGICAL REGISTER, Volume II.

Edited by Carl Murchison and an international co-operating board, consisting of eight psychologists. \$6.00, *postpaid*. Published 1929.

THE PSYCHOLOGICAL REGISTER, Volume III.

Edited by Carl Murchison and an international co-operating board, consisting of forty-three psychologists. Probably \$10.00, *postpaid*. In press.

A HISTORY OF PSYCHOLOGY IN AUTOBIOGRAPHY, Volume I.

By fifteen psychologists. Edited by Carl Murchison. \$5.00, *postpaid*. Published 1930.

A HISTORY OF PSYCHOLOGY IN AUTOBIOGRAPHY, Volume II.

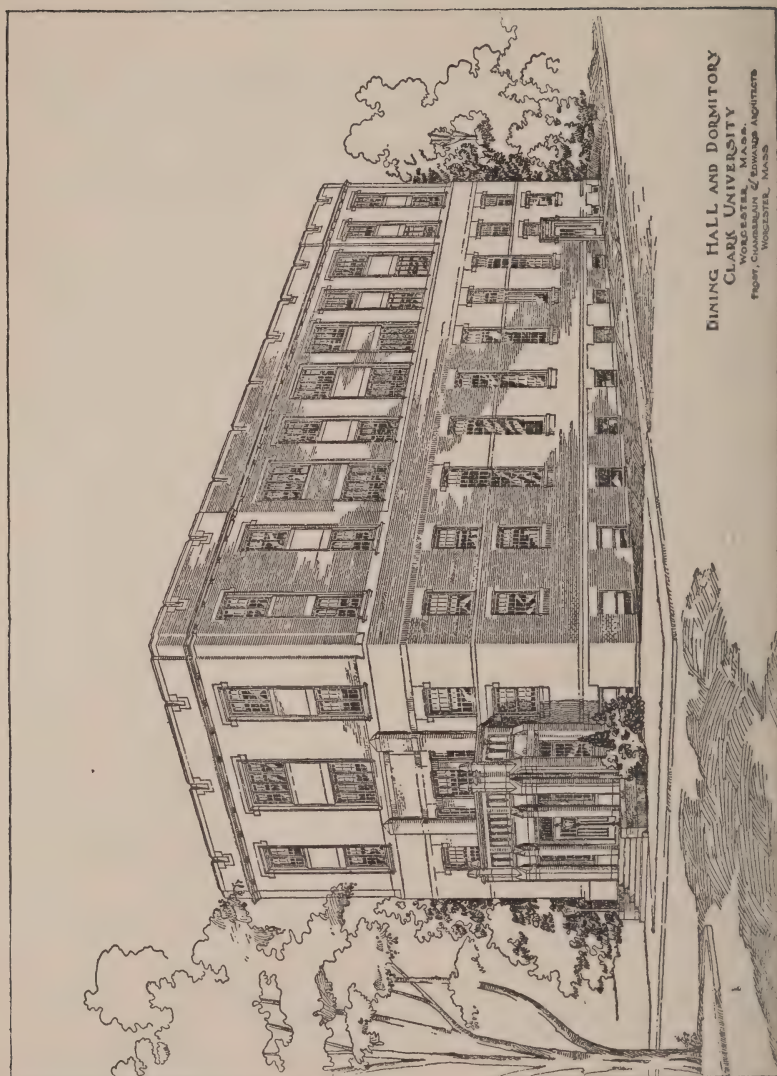
By fifteen psychologists. Edited by Carl Murchison. \$5.00, *postpaid*. To be published 1932.

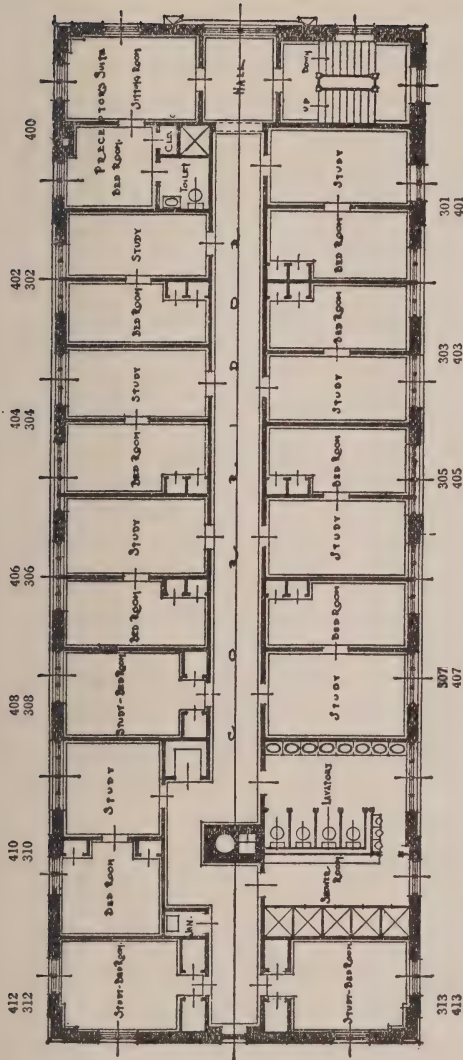
A HISTORY OF PSYCHOLOGY IN AUTOBIOGRAPHY, Volume III.

Edited by Carl Murchison. \$5.00, *postpaid*. In preparation.

A HANDBOOK OF CHILD PSYCHOLOGY.

By twenty-two psychologists. Edited by Carl Murchison. \$5.00, *postpaid*. Published 1931.





### DINING HALL AND DORMITORY, CLARK UNIVERSITY

This dormitory is primarily for Freshmen students. All Freshmen who are living away from home while attending the College and who are not excused by special action of the Collegiate Board are required to live here during their first year. The rent for the rooms has been placed at a very modest figure, much less than rooms of similar equipment and attractiveness can be secured for in the neighborhood of the College. A proctor lives in the building and has general supervision over the life in the dormitory.

# THE UNDERGRADUATE DIVISION

(CLARK COLLEGE)

When the College was established in 1902, a three-year course was adopted as the normal one for the baccalaureate degree. This innovation was due to the emphasis placed upon a three-year course in the will of the founder, based on a conviction that properly prepared students could secure in three years, under favorable conditions, a training essentially equivalent to that ordinarily obtained in a four-year college course. Increasing pressure, both for the admission of high school graduates who could not qualify for the three-year course and for a larger development of extra-curricular activities, led ultimately to the abandonment of the original plan. Beginning with the class which entered in September, 1922, a regular four-year course leading to the degree of Bachelor of Arts has been offered. The opportunity to complete the course in three years is still open to well prepared and serious students, and a small number avail themselves of this opportunity.

The College has a competent faculty, large in proportion to the number of students, and is well equipped for the work which it undertakes. A well-balanced general program leading to the degree of Bachelor of Arts is offered. Distinctly vocational or professional work is not offered although certain departments give a training which has enabled students to take up professional employment immediately after graduation.

A complete statement in regard to fees and expenses will be found on pages 28 to 31.

## SCHOLARSHIPS AND STUDENT AID

THE JONAS G. CLARK SCHOLARSHIPS established by the Trustees in January, 1925, provide scholarships of the value of one hundred dollars each to fifty undergraduates. Twenty of these scholarships are reserved for applicants for admission to the Freshman Class who rank in the upper quarter of their graduating classes in preparatory schools, eight of them being for graduates



of the Worcester High Schools. Of the remaining thirty scholarships, ten are reserved for each of the three upper classes for students who rank in the upper quarter of each class.

These awards are for the encouragement of high grade scholarship. In conformity with this purpose they are subject to the following conditions: (1) one-half the value of the scholarship is deducted from the term bill of the holder at the beginning of each semester, (2) a scholarship is automatically forfeited for the second semester if the holder fails to maintain a rank in the upper half of his class during the first semester.

**THE SANFORD MEMORIAL SCHOLARSHIP FUND.** The alumni of the University have raised four thousand dollars to found a scholarship fund in memory of former President Edmund C. Sanford, the income from which is to pay the full tuition of some undergraduate. Included in the fund, by vote of the class of 1918, is its class gift to the University. The first award of the scholarship was made in June, 1930.

**THE LIVERMORE AND AMBULANCE SCHOLARSHIP** was endowed by citizens of Worcester in honor of Charles Randall Livermore, Clark College, '17, the first Clark man to fall in battle, and of his companions in the Clark Unit of Ambulance Drivers. A scholarship of fifty dollars or more is offered from the income of the fund, to be awarded on the basis of academic success, character, and usefulness to the College. The scholarship is open to students in regular standing in any class of the College who are residents of Worcester County.

**THE HENRY A. WILLIS FUND** of \$5,000 provides scholarships for students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others from the income of this fund.

**THE B'NAI BRITH SCHOLARSHIP** is the income from a fund of \$2,000 provided by the Order of B'nai Brith, primarily but not exclusively for the aid of Jewish students.

**THE CLARK UNIVERSITY FACULTY WOMEN'S CLUB** offers a \$100 scholarship to be given to an applicant who ranks high in intellectual and personal qualities. The club is assisted by Alum-

nae and wives of Alumni. Application should be made to Chairman Scholarship Committee, Clark University Faculty Women's Club.

Applications for undergraduate scholarships should be filed at an early date on blanks which may be secured at the general office. Awards are made by the College Board.

The Board expressly reserves the right to award fewer than the full number of scholarships in any year if fewer than the full number of worthy candidates apply or if for any other reason this may seem advisable.

Aid which is given in the form of scholarships is not regarded as a loan. If, however, those who avail themselves of such aid are able to return the amount in later years, the sums, whatever they may be, will be put into the Alumni Loan Fund of the College.

## LOAN FUNDS

THE ALUMNI LOAN FUND consists of appropriations for loans made by the Trustees over a period of years. Certain of these loans, collected with the co-operation of a committee of Alumni, have been granted as a permanent revolving loan fund. With this has been consolidated a fund of about \$500.00 contributed by L. Kelly Foster, C. B. L. Kelley, Isadore Lubin, H. M. Smith, and others.

THE ESTABROOK LOAN FUND is a revolving fund created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

These funds are loaned to undergraduates by the Dean in co-operation with the Alumni Committee on Loans. Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of six per cent per year. Applications may be made at any time.

THE SARAH M. THURBER LOAN FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans may be made from the income of this fund to either un-

dergraduate or graduate students. Such loans bear interest at the rate of six per cent per year, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

## ADMISSION

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College.

It is the practice to regard every admission as an "admission on trial" to the actual work at the College. The University reserves the right to require any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission to withdraw at any time.

Applications for admission should be made as early as is practicable. Application blanks, as well as official transcripts of preparatory school records and certificates of character should be sent directly to the College by the school officials who sign them.

*Special students* are not admitted to the college. They may be admitted to the University under the supervision of a specified department, on conditions stated on page 28.

### ADMISSION TO THE FRESHMAN CLASS

In addition to satisfactory references as to character, a four-year high school course or its equivalent, including a total of 15 units of credit in acceptable subjects, is required for admission to the Freshman class. A minimum of two units in Mathematics is required. A single unit in a foreign language is not accepted. Commercial and industrial subjects may be credited to a total not exceeding three units. The term "unit" is understood to mean approximately one-quarter of a pupil's normal program of work for the school year.

*No application received after August 1 can be promised consideration.*

An applicant for admission to the freshman class should supply, on blanks furnished by the college:

1. A signed application for admission which should be forwarded by the principal of the school in which the applicant has prepared for college, after the "Personality Rating

Scale" has been completed by a responsible officer of the school. This application should be filed with the Dean at the earliest practicable date.

2. A complete statement of his preparatory school record. This should be mailed to the Dean by the officer who signs it. (See statement below in regard to certificates.)
3. Records of any entrance examinations which he may have taken and of any action by any other college in respect to admission.

### CERTIFICATES

Applicants whose references are satisfactory and who present records from approved schools will be admitted (a) *without conditions* if they offer *fifteen certified* units of credits in acceptable subjects, or (b) *with one or two conditions* if they offer *fourteen or thirteen certified* units respectively in acceptable subjects.

Certificates are accepted from schools on the list of the New England College Entrance Certificate Board. Schools not on this list may receive "specimen" certification privileges by applying to the Secretary of the Board, Dean Frank W. Nicolson, Wesleyan University, Middletown, Conn.

A certificate from a school not on the list approved by the Board is not valid for admission unless the school lies outside of the jurisdiction of the Board.

### ENTRANCE EXAMINATIONS

Applicants from approved schools who cannot present at least thirteen certified units, and applicants from schools which do not have the certificate privilege should arrange in consultation with the Dean to take examinations offered by the College Entrance Examination Board in June. Information concerning these examinations may be obtained from school officers or by addressing the Board at 431 West 117th St., New York City. Applications for examinations must be received by the Board before the end of May.

Those who make a satisfactory record in a designated set of examinations may be admitted to the College with or without con-



ditions. The College will determine in each case what constitutes a satisfactory record in examination.

A final opportunity for making up entrance deficiencies by examinations is offered at the college immediately before the opening of the academic year in September. These examinations also are provided by the College Entrance Examination Board, and are intended to be supplementary to those held in June. Admission to them is by special permission in each case. A fee of \$5.00 is charged by the College for a single examination, with an additional fee of \$3.00 for each subject after the first.

#### ADMISSION WITH CONDITIONS

Admission with conditions is essentially admission on trial. It is not intended that such admissions shall involve the requirement of additional courses during the freshman year for students who are less well prepared than those admitted without conditions. All conditions will be terminated at the beginning of the sophomore year either by removal in the manner specified below or by additions to the requirements for graduation. Conditions may be in specified subjects or may be general, in the latter case indicating some deficiency in the high school course as a whole.

Conditions will be removed if at the end of the freshman year the conditioned student shall have met the normal scholarship requirements for regular standing, namely a rank above the lowest quarter of the class in three-fifths of his courses and no failures. Conditions may also be removed by satisfactory records in College Entrance Board Examinations covering the conditioned subjects in June or September following the freshman year.

Applications for examinations in September, for the removal of conditions, must be filed with the Registrar not later than the first of August preceding the date of the examinations. The fee for examination must be paid when applications are filed.

*Each condition not removed at the beginning of the sophomore year will be replaced by an additional requirement for graduation amounting to three semester hours.*

#### ADMISSION TO ADVANCED STANDING

A student who wishes to enter the College after previous study



at another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the last institution attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally assigned to the Freshman, Sophomore, Junior, or Senior class and will be permitted to register for such courses as he is prepared to undertake. He will not be given a final class rating or a definite amount of credit for work done elsewhere until he has been in residence for at least one semester. After satisfying this requirement as to residence he will be given credit for the work done at any other institution to an amount depending in each case upon the time spent upon it, the grade received, and upon the record made here. Such credit is granted by the vote of the College Board upon the recommendation of the Registrar.

The Bachelor's degree will not be conferred upon a student who has not spent at least a year in residence here, and usually not unless the time in residence includes the two semesters immediately preceding the granting of the degree.

### FACULTY ADVISERS

When a student is accepted by the Committee on Admissions he is assigned to a member of the Faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel, either in regard to problems of the student's college life or other matters. The student should consult with his adviser as soon as possible in order to outline his program of studies before the opening of the College year. In all cases of action directly affecting a student, the adviser is his representative before the Faculty and will present the student's views and desires.

### REGISTRATION

Registration days are the first day of the academic year and the eleventh day (Wednesday) before the beginning of the second semester. Failure to register on or before these days involves a fine of \$1.00 for each day's delay up to a maximum of \$5.00.

*A student's record of attendance begins with the first day of*

*the semester, and no credit for attendance is given until registration is completed. In cases of delayed registrations unexcused absences are recorded for all scheduled meetings of courses unless excuses acceptable to the College Board are presented.*

During the first week of any semester changes of courses may be made for sufficient reason with the written approval of the student's adviser and the instructors concerned. After the first week of any semester no changes may be made except such as are authorized by special vote of the Faculty or of the College Board.

Freshmen may register for programs of either fifteen or eighteen hours of college work per week in the first semester. After the first semester of the freshman year programs of eighteen or more hours per week are restricted to students whose average rank in all courses for the preceding semester is 50th among 100, or better, except in the case of seniors. A senior whose graduation at the end of the year depends upon the completion of a program of six courses may register for such a program in either semester if his average rank for the preceding semester is 75th among 100, or better.

The election of a *major* and *minor* is required as a part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only at the beginning or end of a semester, and then only with the approval of the Dean. Although the *major* and *minor* are not officially regarded as fixed until the student's second year in college, he should plan his course from the beginning as definitely as possible with his probable choice in view.

## THE CURRICULUM

The curriculum is arranged upon a plan which permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies contains two principal subjects (a *major* and a *minor*) together with required courses in English, Fine Arts, and certain subjects chosen in accordance with rules intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

A *major* consists of at least twenty-four semester hours and a

*minor* of at least eighteen semester hours made up of such courses as are specified in the announcements of the various departments.

In order to facilitate the statement of requirements, the departments of instruction are grouped in three divisions:

#### DIVISION A

Biology, Chemistry, Geology, Mathematics, Physics, also the following individual courses: Geography 12, Psychology 12.

#### DIVISION B

Economics and Sociology, Geography, History and International Relations, Psychology.

#### DIVISION C

Ancient Languages, English, German, Romance Languages.

### STUDENT PROGRAMS

Regular students normally carry programs which yield a credit of fifteen or sixteen semester hours for each semester, in addition to the required work in Physical Training. These programs may include lectures, recitations, or work in laboratories. In general it is expected that all courses will require two hours of preparation for each lecture or recitation. Three hours are assumed for each laboratory period, which is counted as the equivalent of an hour of recitation and its two hours of preparation.

*A student carrying the regular program should expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in Physical Training.*

Candidates for the Bachelor's degree in less than four years will generally carry programs of from eighteen to twenty hours per week and should expect to spend practically their entire time on their college work.

Each student elects one of the thirteen departments in which he will complete a *major*, and a related department in which he will complete a *minor*. The choice of *major* and *minor* usually involves certain specific requirements in other subjects. For these and for statements as to what particular courses may be used for a *major* and a *minor* the announcements of the different departments should be consulted.

First year students must make up their programs entirely from courses designated as "Open to Freshmen."

The program for the freshmen year must include:

1. English 11.
2. A course in Foreign Language.
3. A course in Division A.
4. A course in Division B.
5. An elective. (Mathematics 10 or 11 for students intending to major in Division A.)

Second year students should, as a rule, complete the requirement in English, continue work in Foreign Language, and complete the requirements f and g listed under 2 below. A course in Appreciation of the Fine Arts is a requirement for second year students unless they have completed this course with a satisfactory record in the first year. *Any first year requirements which have not been completed must be included in the program of courses for the second year.*

Undergraduates, other than Freshmen, may enter any course listed "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed "for graduate students and advanced undergraduates." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the College Board and of the Graduate Board.

## PHYSICAL TRAINING

Regular gymnasium exercise is required of all students (with certain exceptions) for the general promotion of their health and mental efficiency. The hours at which this work is given are set at times which avoid conflict with recitation hours.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

Students who satisfy all of the following requirements will be recommended for the degree of Bachelor of Arts unless in the



judgment of the Faculty there is cause for withholding this recommendation.

1. A minimum period of study in residence of three academic years.

2. One hundred and twenty semester hours of credit (in addition to the required work in physical training) with satisfactory scholarship (see p. 53) including the following required subjects:

- a. A *major* of not less than twenty-four semester hours.
- b. A *minor* of not less than eighteen semester hours.
- c. A requirement depending on the choice of the *major* subject, six semester hours.

With a major in Division A, the requirement is Mathematics 10 or 11.

With a major in Division B, the requirement is either Greek, Latin, Mathematics or a third year college course in a modern foreign language, subject to the approval of the department in which the *major* lies.

With a major in Division C, the requirement is Greek or Latin. This requirement is waived if two units of Greek or Latin have been presented for admission.

Work taken in fulfillment of this requirement (c) may also be counted toward the fulfillment of requirement (e) or (f).

- d. *English*, twelve semester hours, including English 11 required in the first year, and six semester hours additional required before the end of the third year.

Note: Fine Arts and Public Speaking are not accepted in fulfillment of this requirement.

- e. *Foreign Language*, not more than thirty semester hours nor less than six semester hours, depending upon the amount of foreign language accepted for admission.

Each student must complete, *in college*, six semester hours in one foreign language at a level not lower than the second year college course in that language.

Each student must complete, in preparatory school and college, the equivalent of thirty semester hours, including a course at the third year college level in some one language. No allowance is made for less than six semester hours in any one language.



In calculating equivalents under this requirement, the first two units of preparatory work in one language are accepted as the equivalent of six semester hours of college work and each additional unit in the same language is accepted as the equivalent of six semester hours.

- f. *Division A*, twelve semester hours for students whose high school course included two or three units of Science in addition to Mathematics. For students who presented less than two units of Science, this requirement is eighteen semester hours. For students who presented four or more units of Science, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments, and six semester hours of it must be in some one laboratory course in Biology, Chemistry, Geology, or Physics.

Note: Courses in the history of various sciences may not be used in fulfillment of this requirement.

- g. *Division B*, twelve semester hours for students whose high school course included two or three units of History or related subjects. For students whose high school course included less than two units in this field, the requirement is eighteen semester hours. For students whose high school course included four or more units in this field, the requirement is reduced to six semester hours.

This requirement if more than six hours must be divided between at least two departments with not less than six semester hours in some one department.

- h. *Appreciation of the Fine Arts*, a semester course, three hours per week, required before the end of the second year.

3. *Physical Training*, three hours per week throughout the course except during the second semester of the senior year. Any student may be excused from this requirement for adequate reasons.

## GRADING AND SCHOLARSHIP

*A student's scholarship record is determined by his relative standing (rank) in each of his courses, among those who "pass."*

*College regulations concerning scholarship are based on the*

*fundamental assumption that in any large class the major portion will do fairly satisfactory work and that the remainder will be about equally divided between those who clearly rank above and those who as clearly rank below the group just mentioned.*

*It is not assumed that every high rank implies excellent scholarship or that every low rank implies unsatisfactory scholarship, but it is taken as axiomatic that a high average rank indicates relative excellence, and that a low average rank indicates a relative unsatisfactory record.*

In recognition of the superior quality of work necessary to insure a high rank, additional credit is given to students who are ranked in the upper quarter in any three-hour course. This extra credit amounts to 0.5 hour for ranks from 1 to 5, on the basis of a class of 100 students, 0.3 hour for ranks from 6 to 15 and 0.2 hour for ranks from 16 to 25.

Courses in which a student is ranked in the lowest quarter of the class, ranks 76 to 100, are counted toward the A.B. degree only when combined with courses in which the rank is higher, in the proportion of two hours of credit in the lowest quarter of any class to three hours of credit ranked above the lowest quarter in the same course or in other courses.

For the present, reports to students are made in terms of grades defined as follows: A, distinguished; B, superior; C, acceptable; D, unsatisfactory; F, failed. These grades are further defined by the expectation that, in the long run, of the passing grades, not more than 5% will be A, not more than 25%, A and B combined, approximately 50%, C, and approximately 25%, D.

## CLASSIFICATION OF STUDENTS

Students are classified as Freshmen, Sophomores, Juniors and Seniors, on the following basis:

A student who, at the beginning of any academic year, has credit of less than 15 semester hours, is classified as a Freshman for that year.

A student, who, at the beginning of any academic year, has credit of 15 hours or more, but less than 48 hours, is classified as a Sophomore for that year.

A student, who, at the beginning of any academic year, has

credit of 48 hours or more, but less than 84 hours, is classified as a Junior for that year.

A student, who, at the beginning of any academic year, has credit of 84 hours or more, is classified as a Senior for that year.

A student who has announced his intention of becoming a candidate for the degree of Bachelor of Arts in three years and who, at the beginning of his third year has completed eighty semester hours or more of credit, is classified as a Senior for that year.

Any student, who, at the beginning of the second semester, is clearly in a position to complete the requirements for the degree before the beginning of the next academic year, is classified as a Senior for the second semester.

## HONORS

"First Honors" and "Second Honors" are awarded annually to those members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The Bachelor's degree is awarded "With Honor," "With High Honor," and "With Highest Honor" to those members of each graduating class who have made the most creditable records.

In 1914 the Clark Scholarship Society was organized. The society is similar in aims to the Society of Phi Beta Kappa. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the Society." Membership in the Society is open to members of the faculty. New student members are normally elected at the end of each year from among the men of high standing in the Junior Class. The Faculty makes nominations and the undergraduate members of the Society elect from the men so nominated. Additional nominations are made at the middle and end of the senior year.

## ELIGIBILITY FOR EXTRA-CURRICULAR ACTIVITIES

Participation in extra-curricular activities is denied only to those students whose scholarship record indicates that further

encroachment upon their time and attention may interfere with the completion of their course of study.

A student is "ineligible" for the following half semester if at any report period,

- (a) he fails more than one course.
- (b) he fails one course and does not secure ranks above the lowest quarter of the class in two subjects.
- (c) he passes all courses, and does not secure a rank above the lowest quarter of the class in at least one subject.

Students admitted with advanced standing from another college are "ineligible" for the first half-semester of residence at Clark University, and special students are "ineligible."

## STUDENT LIFE

It has always been the policy of the University to give to its students the greatest possible individual liberty of action and to adopt few rules of conduct.

It is assumed that each student will conform to the recognized standards of morality, good order, and gentlemanly conduct, that he will not absent himself unnecessarily from University exercises at which he is due, and that he will give his serious and constant attention to his work as a student.

While encouraging the fullest possible measure of student self-government, the College recognizes the fact that the individuals and groups among the undergraduates require a reasonable amount of oversight in their various undertakings.

Undergraduate organizations are under such control as will insure proper caution and recognition of responsibility in business dealings.

The general supervision of intercollegiate athletics is committed to an Athletic Board consisting of the Director of Physical Training, the Committee on Athletics of the College Board, two alumni elected by the Alumni Association, and nine student members. The actions of this Athletic Board are subject to review and veto by the Committee on Athletics.

Opportunity for relaxation and the meeting of students and faculty on a basis of general sociability is provided by the various clubs in which both students and faculty participate.

Student activities include a Glee Club and Orchestra which give a series of concerts in Worcester and elsewhere during the winter; a Debating Society whose members have made an enviable record for the University in intercollegiate debates; the Gryphon, a senior honor society, and other organizations.

The Dramatic Association is an active student organization which presents a number of plays each year under the direction of Professor George E. Baker of the Department of English.

The Sub-Freshman Day, in the spring, gives opportunity for those who have some expectation of entering the College in September to become acquainted with the institution.

*The Clark Quarterly*, a review of college life and letters, and *The Clark News*, a weekly undergraduate publication, are published by the students.



# THE GRADUATE DIVISION

## GENERAL INFORMATION

Admission to the Graduate Division is open to properly qualified persons, both men and women.

Instruction and opportunities for original research leading to the degree of Master of Arts and Doctor of Philosophy are offered by the following departments:

\*Biology

Chemistry

Economics and Sociology

Geography

History and International Relations

\*\*Physics

Psychology

Other departments offer courses of an advanced nature which, with the consent of the Graduate Board, may be included in the programs of graduate students, but are not prepared at present to offer complete programs leading to the higher degrees.

A complete statement regarding tuition and expenses will be found on pages 28 to 31.

## SCHOLARSHIPS AND FELLOWSHIPS

The University awards annually a number of scholarships yielding tuition and in some cases an additional stipend up to \$200, and fellowships yielding tuition and additional stipends up to \$800. These stipends are provided from the income of the George F. Hoar Fund of one hundred thousand dollars, the gift of Andrew Carnegie, and from other sources.

*The American Antiquarian Society Fellowship in American History*, having a value of \$300 in addition to the remission of

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\*In the department of Biology programs leading to the doctorate are limited to the field of Physiology.

\*\*Candidates for the doctorate in Physics will not be enrolled until after the return of Professor Goddard who is absent on an extended leave.

tuition, has been established by members of the American Antiquarian Society. This fellowship will be awarded to a student whose *major* is in American History.

#### STUDENT AID

Student aid is available from the following funds, with the restrictions noted.

A CITIZEN'S FUND has been established by a citizen of Worcester in the sum of five thousand dollars, the income of which is to be used for the aid of "some one or more worthy native born citizens of the City of Worcester who may desire to avail themselves of the advantages of the institution." The benefits of this fund are available to graduate students only.

THE JOHN WHITE FIELD FUND, the income of which is "to provide for the minor needs of a Scholar or Fellow," has been established by Mrs. Eliza W. Field. The fund amounts to five hundred dollars.

The following regulations apply to the award of the income of the Field Fund:

1. Consideration is given both to the intellectual ability of the candidate and to the need of pecuniary assistance.
2. Only candidates who have spent three months in graduate work at the University are considered.
3. The head of each department will consider and report to the Faculty desirable cases in his department.
4. Applications are received not later than January 30, and the awards made as soon as possible after the beginning of the second semester.

THE ELIZA D. DODGE FUND is a sum of one thousand dollars the income only of which is to be expended to aid graduate students of limited means engaged in research work.

#### LOAN FUNDS

THE SARAH M. THURBER FUND. This fund has been established through the generosity of Dr. Charles H. Thurber, President of the Board of Trustees, as a memorial to his mother. The fund is administered by the President of the University. Loans

may be made from the income of the fund to either undergraduate students or graduate students. Such loans will bear interest at the rate of six per cent per annum, and should be repaid as promptly as possible, so that other students may benefit from this foundation.

**ALUMNI LOAN FUNDS.** Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

### LIBRARY FACILITIES

In addition to the Library facilities provided by the University, students may avail themselves of the privileges of several other excellent libraries in the city. The Worcester Public Library contains some 237,000 volumes and makes accessible to the public about 600 newspapers and magazines. The library of the American Antiquarian Society, housed in the national headquarters of the society in Worcester, contains about 136,000 volumes and some 202,000 pamphlets. The library of the Worcester District Medical Society is also at the disposal of members of the University.

### ADMISSION TO THE GRADUATE SCHOOL

*Eligibility.* Admission is granted only by the Graduate Board on recommendation of a department. A graduate of more than average ability from a college or university which was on the approved list of the Association of American Universities at the time his bachelor's degree was obtained is eligible for admission as a *regular graduate student*. A graduate of superior attainments from a four-year college not on the list, is normally eligible for admission only as a *special graduate student* for a specified period, not exceeding one academic year. A special graduate student may be admitted by the Graduate Board to regular graduate standing after a semester, or its equivalent, of study in residence and upon the recommendation of his major department.

*Application.* A prospective applicant should communicate with the department in which he expects to do his major work, to

learn whether his preparation is satisfactory, and whether he is likely to obtain the department's endorsement of his application. The application should be made on a blank form which may be had from the Registrar or Secretary of the Graduate Board. This application, together with official certificates of previous undergraduate and graduate work should be filed with the Secretary of the Graduate Board. Any other pertinent information, including published or unpublished theses or other writings of the applicant, may accompany the application.

*Admission.* In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at the specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for re-instatement.

*Undergraduates and non-graduate special students in graduate courses.* Admission of other than regular or special graduate students to a course "Primarily for Graduate Students" may be authorized by the Secretary of the Graduate Board on formal recommendation in each case by the department in which the course is offered.

## SCHOLARSHIPS AND FELLOWSHIPS

### GENERAL REGULATIONS

1. Scholarships and fellowships (except honorary appointments) are for prospective candidates, respectively, for the degrees of Master of Arts and Doctor of Philosophy in this University.

2. All applications for scholarships and fellowships shall be filed by the applicant's major department with the Secretary of the Graduate Board on a form approved by the Board. Each application must carry the written explanatory, favorable or unfavorable, recommendation of the department and must be accompanied by supporting data. Applications when properly



endorsed, as provided above, will be considered by the Committee on Credentials, which will report to the Graduate Board the names of all applicants together with the recommendations of the Committee. The Secretary will notify applicants of the action of the Board.

3. An appointment will become effective when an acceptance in writing is filed with the Secretary of the Graduate Board within 15 days of the date of notification.

4. For most favorable consideration applications for appointments for the succeeding academic year should be in the hands of the Secretary by March 1st.

5. Scholarships or fellowships are not transferable from one department to another except with the approval of the Graduate Board.

6. A scholar or fellow shall not engage during the term of appointment in any occupation that may interfere with his duties as a full-time graduate student unless he obtains permission from the Graduate Board to do so.

#### SCHOLARSHIPS

Scholarships may be awarded to students of high rank who may be expected to fulfill the requirements for the Master's degree in the normal time. These scholarships are valued at from \$100 to \$400. This is equivalent to half or full tuition or to full tuition and an additional stipend of \$50 to \$200.

#### FELLOWSHIPS

Fellowships valued at \$200 to \$600, which are equivalent to tuition alone or to tuition and an additional stipend of from \$50 to \$400, may be awarded to competent, full-time, regular graduate students who have completed an amount of graduate work equivalent to the requirements for the M.A. degree. Fellowships valued at \$200 to \$1,000, equivalent to tuition alone or to tuition and an additional stipend of \$50 to \$800, may be awarded to competent graduate students who give promise of completing their work for the degree of Doctor of Philosophy by the end of the academic year for which the appointments are made.

Some of these fellowships will be designated as *research fellow-*



*ships or teaching fellowships*, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Where the research or teaching duties in such fellowship or in an assistantship would prevent a scholar or fellow from carrying a full program of studies during the academic year, he may nevertheless qualify for full-time credit for the year through an adequate summer program of research or reading directed by the major department and approved by the Graduate Board.

#### HONORARY FELLOWSHIPS

Distinguished visitors may be appointed Honorary Fellows for specified periods at the discretion of the Graduate Board. Such appointments entitle their holders to all university privileges and carry freedom from tuition charges, but no additional stipends are given.

#### RULES AND REGULATIONS

##### PROGRAMS OF STUDY

Programs of study of all students in the Graduate School, approved by departmental staffs, must be submitted to the Secretary of the Graduate Board by October 1 and February 10 each year. The Secretary shall scrutinize these programs and report any irregularities to the department concerned or to the Board.

##### LANGUAGE REQUIREMENTS

*Requirement in English.* A student who wishes to become a candidate for a higher degree during his first year of residence may be required to come before the Committee on Language Examinations before admission to candidacy, for a test of the adequacy of his knowledge of English in respect to speaking, reading and writing.

A candidate for a graduate degree after more than one year of graduate study must satisfy his major department in respect to his knowledge of English.

*Foreign Languages.* A prospective candidate for the Ph.D.

degree is advised to prepare himself early for the oral examinations in reading modern languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must present himself for these examinations not later than February 1 of his first year of residence at Clark beyond the M.A. degree. When he is ready for either or both he is to notify the Secretary of the Graduate Board, who will arrange for the examination to be held within two weeks if possible. These examinations are conducted by a committee composed of a representative of one of the modern language departments, and a representative of the student's major department. The committee shall report the results of the examination to the Secretary of the Board. Other additional language requirements may be imposed by the student's major department.

#### RESIDENCE

A regular academic year of full-time study or its specified equivalent in residence at Clark University is a prerequisite for any degree. Only the following is recognized as equivalent to a regular academic year: one full semester of the regular academic year and the equivalent of 18 other weeks on a full-time program of graduate work approved by the major department may be accepted as meeting the residence requirements for the degree of Master of Arts. Residence work is broadly defined as regular work at Clark University done under the immediate personal supervision of at least one member of the university faculty. A field trip led by a member of the university faculty who is regularly engaged in graduate instruction is considered as providing an opportunity for work in residence to a maximum extent of nine weeks.

#### THE DEGREE OF MASTER OF ARTS

*Admission to Candidacy.* Regular students who have been admitted to the Graduate School without condition, or others who have met any special requirements imposed by the Graduate Board, may, when they have demonstrated their ability to do satisfactory work in the University, be accepted by the Graduate

Board as candidates for the degree of Master of Arts. An application for admission to candidacy for the Master's degree will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee (\$10.00) and publication fee (\$10.00), and
3. Obtained the written endorsement of his major department.

Applications should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for the degree. Unless extended by action of the Graduate Board, candidacy for the Master of Arts degree lapses at the end of three years. When candidacy expires without the degree having been awarded the diploma and publication fees, less any expenses incurred, will be returned.

*Course requirements.* In order to insure that the student may obtain the necessary training, he must meet a minimum course requirement of 18 semester hours in addition to his research work. The subject-distribution of the courses of each candidate must have the approval of the candidate's major department.

*Examinations.* The candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination of approximately one hour's duration by a committee of three or more, two of whom shall be members of the Graduate Board. The major department shall make a written report to the University Registrar, not later than 9 A. M. of the Friday preceding Commencement, stating the ground on which the candidate is recommended for the M.A. degree.

*Thesis.* The candidate must demonstrate that he has a comprehensive knowledge of his field of study and is capable of carrying on, under direction, a satisfactory investigation in that field. He must submit to his major department, by May 15 of the year in which the degree is to be conferred, a thesis on an approved topic and two copies of an abstract thereof. The thesis shall be

in a prescribed form and shall bear upon the title page the following statement :

"A thesis submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Master of Arts in the Department of——— and accepted on the recommendation of (Name of Chief Instructor)."

The abstract should not exceed 600 words in length and should bear the written statement,

"Abstract approved for publication  
(Name of Chief Instructor)."

The thesis and two copies of the abstract, bearing the signature of the chief instructor, shall be delivered to the University Registrar not later than 9 A. M. of the Friday preceding Commencement.

Additional copies of the thesis or abstract may be required by the major department.

## THE DEGREE OF DOCTOR OF PHILOSOPHY

*Course of Study.* Only such candidates as give evidence of general proficiency, power of investigation and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

A graduate student who expects to proceed to the Doctor's degree shall select a major subject of study, and at least one minor subject with the approval of the department in which the major subject lies.

*Admission to Candidacy.* Applications for admission to candidacy must be filed not later than November first, in any academic year, by students who hope to receive the degree at the end of that academic year.

An application for admission to candidacy for the degree of Doctor of Philosophy will be considered by the Graduate Board when the applicant has :

1. Completed two full academic years of graduate work or its equivalent;
2. Passed examinations in at least two foreign lan-



guages ; French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these ;

3. Passed a preliminary examination in his major and minor fields of study ;

4. Paid the diploma and publication fees (\$25.00 and \$15.00) ;

5. Filed with his major department an application for admission to candidacy, stating the subject of his dissertation, and

6. Obtained the endorsement of the application from his major department.

Admission to candidacy for the degree of Doctor of Philosophy shall hold good only for three years from the date of the vote granting admission to candidacy. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, will be returned.

*Dissertation.* For the degree of Doctor of Philosophy an indispensable requirement is a dissertation upon an approved subject, to which it must be an original contribution of value.

Not later than May 1, the dissertation, with an abstract not exceeding 1,200 words in length, must be presented to the instructor under whose direction it is written. The dissertation shall contain a title page with the following statement :

"A dissertation submitted to the Faculty of Clark University, Worcester, Massachusetts, in partial fulfillment of the requirements for the degree of Doctor of Philosophy in the Department of——— and accepted on the recommendation of  
(Name of Chief Instructor)."

The abstract should bear the written statement,

"Abstract approved for publication  
(Name of chief instructor)."

The dissertation and abstract must be accepted by the chief instructor before the final examination may be held. In every case the dissertation shall be laid before the examining committee at the time of examination, with the comments of the chief instructor and other readers.



The complete copy and two copies of the abstract of the dissertation, bearing the signature of the chief instructor, shall be delivered by the department to the University Registrar not later than 9 A. M. of the Friday preceding Commencement. The dissertation and one copy of the abstract will be deposited in the Library, where they shall remain permanently, not subject to withdrawal.

If and when a dissertation is published, five of the printed copies should be presented to the Clark Library; four copies to be retained by the Library and the other to be presented to the Library of Congress for its annual list of American doctoral dissertations printed.

*At the final examination* the student will be expected to defend his dissertation and, at the discretion of the examining committee, he may be questioned over the entire field of his study. The final examination will be at least a two-hour oral examination. Additional written examinations may be given at the discretion of the department concerned. The oral examination will be held by a committee of at least four members, including the chairman or his duly appointed representative and one other representative of the department in which the candidate has done his major work, one or more representatives of the department or departments in which the candidate has elected his minor subjects, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as care to attend.

The President of the University is authorized to invite any person from within or without the University to be present and to assist in the examination. The committee shall in each case appoint a clerk who shall report the results of the examination to the University Registrar.

The Secretary of the Graduate Board shall prepare and publish a schedule of examinations and the examining committees for the degree of Doctor of Philosophy at least one week before the beginning of such examinations.

Each department shall render to the University Registrar final reports in writing on all candidates for the degree of Doctor of Philosophy not later than 9 A. M. of the Friday preceding Commencement.

# THE GRADUATE SCHOOL OF GEOGRAPHY

Work in Geography is carried on by the Graduate School of Geography which is organized with a faculty of specialists in the various branches of the subject. The School occupies a well-equipped building, including lecture rooms, offices and work rooms, and is directly connected with the William Libbey Geographical Library and the University Library.

Degrees in Geography are granted by the University on the same terms as in other fields of study.

## STAFF

WALLACE W. ATWOOD, PH.D., Professor of Physical and Regional Geography and Director of the Graduate School of Geography.

ELLEN C. SEMPLE, LL.D., Professor of Anthropogeography.

CHARLES F. BROOKS, PH.D., Professor of Meteorology and Climatology.

DOUGLAS C. RIDGLEY, PH.D., Professor of Geography in Education, Director of Home Study and of the Summer School.

CLARENCE F. JONES, PH.D., Professor of Economic Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography, Assistant Editor, *Economic Geography*.

SAMUEL VAN VALKENBURG, PH.D., Associate Professor of Climatology and Regional Geography, 1932-.

WALLACE R. ATWOOD, PH.D., Assistant Professor of Physiography and Regional Geography.

RUTH E. BAUGH, PH.D., Visiting Lecturer in Anthropogeography for the first semester of 1931-32.

CURTIS F. MARBUT, PH.D., Special Lecturer on Soils.

GUY H. BURNHAM, A.M., Cartographer.

## OTHER MEMBERS OF THE UNIVERSITY STAFF OFFERING CLOSELY RELATED WORK

GEORGE H. BLAKESLEE, PH.D., Professor of History and International Relations.

JAMES B. HEDGES, PH.D., Visiting Professor of American History.

HOMER P. LITTLE, PH.D., Professor of Geology.

SAMUEL J. BRANDENBURG, PH.D., Professor of Economics and Sociology.

JAMES ACKLEY MAXWELL, PH.D., Associate Professor in Economics.

VERNON JONES, PH.D., Associate Professor of Educational Psychology.

ARTHUR F. LUCAS, PH.D., Associate Professor of Economics and Sociology.

H. DONALDSON JORDAN, PH.D., Associate Professor of English History.

RAY A. BILLINGTON, A.M. Instructor in History.

PERCY M. ROOPE, PH.D., Associate Professor of Physics.

DAVID POTTER, PH.D., Assistant Professor of Biology.

PAUL W. SHANKWEILER, A.M., Assistant Professor of Sociology.

#### GENERAL STATEMENT

During the last few years the American people have been awakened, in a remarkable way, to an interest in Geography. Since the period of isolation in national development is passed, they have come to realize almost suddenly, that the United States of America is one of the leading nations of the world and vitally interested in foreign countries and their problems.

This awakening, and the consequent broadening of our horizon, have forced us to recognize that we have neglected in this country the scientific study of Geography. Many of the universities and colleges of this country are now calling for trained geographers. Commissioners of education, normal schools, and high schools are looking for men and women who can serve as supervisors or as special teachers in Geography. The large financial houses are endeavoring to train men in Commercial Geography in their own schools. The Departments of the Government are now using trained geographers, and the Civil Service Commission has recently recognized that no one should enter consular or diplomatic service who has not been trained in the geography of this country and the world. The intelligent reading of current literature is

demanding an increasing knowledge of the peoples and of the conditions in distant lands.

The Graduate School of Geography gives opportunity to properly qualified students to secure advanced training in Geography. The staff is composed of specialists in the various fields of Geography. They must of necessity spend a portion of their time in travel and in field studies, but while in residence, they offer regular courses of instruction and direct advanced students in research work. It is not the intention to offer all courses of instruction each year; many of them are given once in two years. Abundant opportunities for instruction are provided, but graduate students are advised not to burden themselves by attending too many lecture courses. They must depend very largely for their growth upon their individual efforts in research, under the direction of members of the staff. The map collection and the Libraries offer them unusual facilities for research work in residence, but it is hoped that all graduate students, before completing their university work, may undertake field studies.

Advanced studies in History, Economics, and Sociology, as well as a reading knowledge of the modern languages, are important to all students of Geography, and the attention of such students is called to the announcements in those departments.

The Graduate School of Geography aims to promote productive scholarship, in every way possible, and to train those who wish to enter the profession to become leaders in their chosen fields of work.

The publication of *Economic Geography*, issued quarterly, was begun in 1925.

A complete statement regarding tuition and expenses, Fellowships and Scholarships, and general conditions of work will be found on pages 28 to 31.

In the Summer School each year many members of the geography staff offer both elementary and advanced courses. These are acceptable for preparation for graduate work and for meeting in part the requirements for the degree of Master of Arts.

## GEOGRAPHY COURSES FOR COLLEGE STUDENTS

Undergraduates planning to go on into graduate work in Geogra-



phy are urged to consult the Geography Staff early in their undergraduate course, so that suitable programs may be mapped out including essential courses in related fields. A *major* in Geography should in general begin with Geography 10 in the first year and should include Geography 12 in the second or third year of the course. An attempt should be made to secure some acquaintance with each of the principal divisions of the field of Geography: Regional Geography, Physiography, Meteorology and Climatology, Economic Geography, Anthropogeography and Political Geography.

For a *minor* in Geography, the "Fundamentals" and a course in Regional Geography are recommended for the first year, or General Geology for the second year, and "Natural Resources" or Economic Geography for the third year.

Additional courses recommended for *majors* or *minors* in Geography are as follows:

General Physics (Physics 11).

Principles of Economics (Ec. 11).

A Survey of International Relations (Hist. 18).

German and French (a good reading knowledge), English for at least two years, Ancient and Modern History, Chemistry, and Biology or Botany are also recommended as foundations for advanced work in Geography.

## GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

The Graduate School of Geography is open to any who wish to receive professional training in Geography, and who are qualified to enter the Graduate Division of the University and take advanced work in Geography. The undergraduate preparation for advanced work is indicated by the above college program.

Degrees of Master of Arts and of Doctor of Philosophy are conferred. For the A.M. degree two years may be required for those whose preparation is considered to be insufficient to permit them to qualify in the minimum time.

A special feature of the program of geography courses is the rather closely synchronized sequence on the physiography, climatology, plant geography and agriculture of the various regions of the Eastern Hemisphere one year and of the regions of North



America another. Coupled with the courses on geographic aspects of world trade and of the foreign trade of the United States, in corresponding years, these sequences constitute a sort of super-course on regional geography.

The following courses in other departments should be of interest to students in Geography.

Botany (Biol. 14)

Economic History of Western Europe (Ec. 14a)

Economic History of the United States (Ec. 14b)

Statistics (Ec. 16)

International Trade and International Finance (Ec. 27a)

International Economic Policies (Ec. 31)

Land Economics (Ec. 32)

Pacific and Far East (Hist. 22)

Latin America (Hist. 27)

All prospective candidates for graduate degrees in Geography, who are in residence, will be expected to attend the Field Camp for three weeks each autumn, and during the year to take part in the Thesis Seminar and in the Senior Seminar.

Formal course work in Geography ends in midwinter on January 15, and in spring on May 1, leaving students free to read and to coordinate their work prior to the examination periods.

Candidates for the Master's degree in Geography will be expected to pass written examinations and a general oral examination in the following fields: Physiography, Climatology, Soils, Plant Geography, Land Utilization and Agricultural Geography, Economic Geography, Anthropogeography, Regional Geography, and Geography in Education.

Candidates for the Doctor's degree in Geography will be expected to pass more advanced written examinations, and a general oral examination including the broad foundation required for the Master's degree and such more advanced studies as the candidate may have pursued in the fields of his particular interests. In general, a year of work beyond the Master's degree should prepare a candidate for his general examination which is preliminary to his being accepted as a candidate for the Ph.D. degree and to his entering on concentrated work for his Ph.D. dissertation.

This year of course work may well include, besides certain advanced courses in Geography, related advanced studies in History and International Relations, Economics, or Physics. The student is given much freedom of choice. By February 1 of the year prior to the final one for the doctorate a prospective candidate for the doctorate will be expected to show a reading knowledge of German and French.<sup>1</sup> These two foreign languages are the most important for American geographers. A careful reading of the language requirements in the announcement of the Graduate Division is recommended.

### STUDENTS' FEES

All Geography students in residence must meet the Camp fee, the Workroom fee, and a Classroom Materials fee.

The Camp fee covers board and lodging, transportation, maps, drafting supplies, and meteorological instruments from the time the party leaves Worcester to go to Camp till it returns at the end of the three weeks' period. The fee is \$75.00, payable October 1 to the Camp treasurer. The tuition fee for students participating in the Field Course only is \$25.00.

The Workroom fee is in the nature of a laboratory fee, and it is assessed to help maintain the Geography Workroom and its equipment. Each graduate student in residence has a desk, shelf-space, and a section of an alcove in the Workroom. The files of maps, the card catalog, and the Libbey Library and Bibliography are at hand. A section of the Workroom is also given over to drafting tables with a large and varied equipment of drafting instruments, which are available for the use of students. There are also adding and computing machines. The Workroom fee is \$5.00 a semester, payable November 1 and March 1, to the departmental stenographer.

The Classroom Materials fee is for mimeographed outlines, abstracts, summaries, and chapters of theses in the various courses and in the seminars. It also provides in part for the maintenance of the classroom wall-maps and other equipment. All students

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<sup>1</sup>While German and French will normally be the two languages required an exception might be made in a case where the dissertation for the doctorate demands a comprehensive knowledge of Spanish.

in residence receive the mimeographed material for all courses whether they attend or not. Furthermore, this fee covers the small expense of balloons and hydrogen and of some meteorological instruments in connection with the informal 15-minute daily weather meetings. The Classroom Materials fee is \$5 each semester, payable November 1 and March 1, to the departmental stenographer.

The diploma fees and publication fees for candidates for graduate degrees are listed on page 30.

## ASSISTANCE BY SCHOLARS AND FELLOWS

Scholars and Fellows are expected to assist in the research or other work of the Department to an extent of about 3 hours a week, though never more than 6 in any week unless to concentrate the assistance. The opportunities for assistance will be posted at the beginning of the year, and this work will be assigned as nearly as possible according to the interests of the Scholars and Fellows and in such a way as to be of benefit to them as well as to the Department.

## COURSES IN GEOGRAPHY

### 1. PRIMARILY FOR UNDERGRADUATES

**10a. Fundamentals of Geography.** A first course in college geography dealing with the geographic factors and geographic principles necessary to the understanding of the relationships existing between man and his natural environment. A world view of geography forming a good basis for all later courses.

Open to Freshmen.

*Three hours*, first semester. Tu. Th. S., 8.

PROFESSOR RIDGLEY

**100a. Conservation of Natural Resources.** A study of the natural resources of the United States, including forest resources, minerals, soils, water resources, and other topics. A consideration of the original supply of natural resources, their uses to the present time, and their future possibilities. A comparison of the

natural resources of the United States with those of other countries of the world.

*Three hours, first semester. M. W. F., 8.*

PROFESSOR RIDGLEY

**181b. Geography of North America.** An introduction to the study of continental areas. A treatment of the continent as a whole followed by regional studies from various points of view. A desirable foundation for the more advanced and more specialized courses in North America and other continents. Prerequisite, Geography 10 or equivalent. Offered in alternate years.

Open to Freshmen.

*Three hours, second semester.*

PROFESSOR RIDGLEY

Omitted in 1931-32, to be offered in 1932-33 and alternate years.

**185b. Geography of Europe.** A study of the general geography of Europe. The continent will be studied as a whole with more detailed consideration of selected regions and countries. A desirable foundation for the more advanced and more specialized courses in the geography and history of Europe. Offered in alternate years.

*Three hours, second semester. Tu. Th. S., 8.*

PROFESSOR RIDGLEY

To be omitted in 1932-33.

*Geog. Factors in Land Utilization; Intro. to Ec. Geog.*

**11b. ~~Distribution and Utilization of Natural Resources.~~**

This course includes an analysis of geographic factors which are influencing the utilization of farm lands, grazing lands, forests, the fishery resources, and the resources in the earth below the soil. The importance of these resources in the economic development of the various nations of the world constitutes an important division of the study. Prerequisite, Geography 10 or equivalent.

*Three hours, second semester. Tu. Th. S., 9.*

PROFESSOR W. R. ATWOOD

**Geology 12. General Geology.** (For description see announcement of Department of Geology.)

*Three hours, through the year. M. W. F., 8; Th. 2.*

PROFESSOR LITTLE



**12. Weather and Climate.** This course aims (1) to give the student an understanding of weather processes, largely through watching the passing weather; (2) to train him in daily forecasting; (3) to show how various weather combinations make up the several types of climate; and (4) all through the year to bring out the intimate effects of the weather on all sorts of human affairs. Elementary Meteorology is taken up systematically during the first semester, and elementary Climatology the second. Daily ceiling balloon flights.

*Three hours*, through the year. T. W. T. F., 12; and one or two lab. hrs., to be arranged.

PROFESSOR BROOKS, ASSISTED BY MR. CHURCH

**Geology 121a. Mineralogy.** (For description see announcement of Department of Geology.)

*Three hours*, first semester.

PROFESSOR LITTLE

Omitted in 1931-32.

**Geology 122b. Economic Geology.** (For description see announcement of Department of Geology.)

*Three hours*, second semester.

PROFESSOR LITTLE

Omitted in 1931-32.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**21a. Interpretation of Physiographic Features.** A lecture, field and laboratory course designed to acquaint the student with the principles of physiography in such a way that he can apply them in the field or in map interpretation.

Prerequisite, Geology 12, or equivalent in Physiography.

*Two hours*, first semester. M. W., 9; Tu., 2-3:30.

PROFESSOR W. W. ATWOOD AND MR. FOUNTAIN

**201. Geography of Asia and Australasia.** Offered in alternate years.

New course, to be offered in 1933-34, alternates with 375a.

PROFESSOR VAN VALKENBURG

**202. Political Geography.** Offered in alternate years.

New course, to be offered in 1932-33.

PROFESSOR VAN VALKENBURG



**210. Physical Oceanography.**

Prerequisite, Geology 12.

*One hour*, second semester, to be arranged. PROFESSOR BROOKS  
Omitted in 1931-32, to be offered in 1932-33 and alternate years.

**22a. Climatology.** A study of principles, brought home by original observations and by compilation, graphing and mapping climatic data and interpreting the results.

Prerequisite, Geography 12 or equivalent.

*Two hours*, first semester. M. W., 11; W., 2-3:30.

PROFESSOR BROOKS

**221. The Passing Weather.** Daily outdoor meeting, including an observation of the weather; a ceiling balloon flight; discussion and interpretation of the weather for the past 24 hours from local observations, weather maps and reports; and weather forecast for the following night and next day. Members of this class will be responsible for the operation of the University meteorological observatory.

Prerequisite, Geography 12 or equivalent.

*One hour*, through the year. Daily 12-12:15, and occasional other periods.

PROFESSOR BROOKS

To be omitted in 1932-33. Offered in 1931-32 and alternate years.

**222. Weather and Climate.**

*Two hours*, first semester. PROFESSOR VAN VALKENBURG  
New course, to be offered in 1932-33.

**Biology 14a. General Botany.** (For description see announcement of Department of Biology.)

*Three hours*, first semester. ASSISTANT PROFESSOR POTTER

**24a. Plant Geography.** The responses of plants and plant groups to the factors of physical environment, and their interrelationships. The physical bases of plant distribution.

Prerequisites. Biology 14a or equivalent, Geology 12 or equivalent in physiography, and Geography 12 or equivalent.

*Two hours*, first semester, M. W., 11; *one hour*, second semester, Tu. 11.

PROFESSOR EKBLAW

**25b. Agricultural Geography and Land Utilization.** A course in the relation of physical environments to the character of land utilization, and to the various types of land use; the physical and economic factors that enter into the delimitation of agricultural regions; the influences of relief, climate, soil, and other physical factors upon the distribution of crops; the economic interdependence of the various regions of the United States.

Prerequisite, Geography 10, or equivalent.

*Two hours*, second semester. M. W., 2. PROFESSOR EKBLAW  
Omitted in 1931-32.

**26a. Economic Geography.** A study of the relation of physical and economic conditions to the production, and trade in selected important agricultural, forest, mineral, and manufactured products of the world; emphasis will be placed on the regional aspect of the commodities, and on the combinations in producing complex agricultural and manufacturing regions. Prerequisites, Geog. 10a, 181b, 184b, 290a, and Geol. 12.

*Three hours*, first semester. T. Th. S., 10. PROFESSOR JONES  
Omitted in 1931-32, to be offered in 1932-33 and alternate years.

**290a. Cartography and Graphics.** Principles and practice of map-making, constructing of diagrams, and relief drawings.  
Open only to students *majoring* in Geography.

*One hour*, first semester.

PROFESSOR W. W. ATWOOD AND MR. BURNHAM

**29b. Geography in Education.** A survey of geography in the present-day American school system, including elementary school, high school, teacher-training institutions, colleges and universities; examination and comparison of present courses of study in each group of schools; problems of high school and normal school emphasized; designed to meet the needs of those expecting to teach Geography.

Prerequisites, Geography 10a and other geography courses totaling at least 18 hours.

*Three hours*, second semester. M. W. F., 8.

PROFESSOR RIDGLEY

## 3. EXCLUSIVELY FOR GRADUATE STUDENTS

**30. Thesis Seminar in Geography.** Candidates for Master's and Doctor's degrees are directed in the selection of themes for theses. Outlines of theses are here presented for criticism, followed by presentations of successive chapters as these are prepared. Members of the staff lead the discussion, which is participated in by all members of the Seminar.

*Two hours*, through the year.

STAFF

**300. Senior Seminar in Geography.** Meetings for discussion of contemporary advances in geography.

*One hour*, through the year.

STAFF

**310. Research in Regional Physiography.** A critical review of the source material on Physiography and of the leading contributions made by those who have developed this phase of geographic investigation.

PROFESSOR W. W. ATWOOD

**311b. Physiographic Regions of North America.**

Prerequisite, Geography 21a or equivalent. Offered in alternate years.

*Two hours*, second semester. M. W., 9; Tu., 2-3:30.

Omitted in 1931-32, to be offered 1932-33.

PROFESSORS W. W. ATWOOD AND W. R. ATWOOD

**319b. Physiographic Regions of the Eastern Hemisphere.**

Prerequisite, Geography 21a or equivalent. Offered in alternate years.

*Two hours*, second semester. M. W., 9.

PROFESSOR W. W. ATWOOD AND ASSISTANT

**320. Research in Climatology or Climates of the World.** Special studies in the climates of particular regions or in comparative climatology.

PROFESSOR BROOKS

**321b. Climatology of North America.** Factors controlling the distribution of climates in North America. The climatic regions and explanations of their characteristics. Original studies.

Prerequisite, Geog. 22a or equivalent.

*Two hours*, second semester. M. Tu. W. Th., 10.

Omitted in 1931-32, to be offered in 1932-33 and alternate years.

PROFESSOR BROOKS

## 322. **Climates of the World.**

### 329b. **Climate of the Eastern Hemisphere.**

Prerequisite, Geography 22a or equivalent.

*Two hours*, second semester. M. W., 10.

STAFF

**33b. Soil Geography.** Geographic types of soils, their mode of formation and distribution. Soil regions in relation to relief, climate, vegetation, and agriculture.

DR. MARBUT

### 330. **Research in soils.**

DR. MARBUT

### 340. **Research in Plant Geography.** PROFESSOR EKBLAW

**341b. Plant Regions of North America.** An intensive study of plant distribution in North America.

Prerequisite, Geography 24a.

*Two hours*, second semester. M. W., 11.

Omitted in 1931-32, to be offered in 1932-33 and alternate years.

PROFESSOR EKBLAW

**349b. Plant Regions of the Eastern Hemisphere.** The distribution of plants, plant types and plant groups in response to physical factors, and its effect upon human activities. Offered in alternate years.

Prerequisite, Geography 24a.

*Two hours*, second semester. M. W., 11.

PROFESSOR EKBLAW

### 350. **Research in Agricultural Geography or Land Utilization.** PROFESSOR EKBLAW

### 351b. **Agricultural Regions of North America.**

Prerequisites, Geography 21a, 25b, and approved courses in Economics.

*Two hours*, second semester. M. W., 2. PROFESSOR EKBLAW

Omitted in 1931-32, to be offered in 1932-33 and alternate years.

### 359b. **Agricultural Regions of the Eastern Hemisphere.**

Prerequisites, Geography 21a, 25a, and approved courses in Economics. Offered in alternate years. PROFESSOR EKBLAW

**36b. Industrial Geography.** A research and lecture course on the leading manufacturing industries of the world; an analysis of the essentials of manufacturing; the sources of power; the iron and steel industries, including the alloy minerals; the automobile industry; agricultural machinery; electrical machinery; textile machinery; the textile industries; and other selected industries. In the study of these industries emphasis will be placed on the location, raw materials, power, labor, capital, type of product, and other conditions influencing the evolution of the industry. The course will conclude with an analysis of the chief manufacturing regions of the world.

Prerequisites, Geography 26a and 21a or 22a.

*Two hours*, second semester. M. W., 2. PROFESSOR JONES  
Omitted in 1931-32.

**360. Research in Industrial or Commercial Geography.**

PROFESSOR JONES

**362b. Geographic Aspects of United States Foreign Trade.**

*Two hours*, second semester. T. Th., 11. PROFESSOR JONES  
Omitted in 1931-32, to be offered in 1932-33 and alternate years.

**369b. Geographic Aspects of World Trade.** Geographic bases of modern world trade; major commercial divisions and trade regions of the world; the flow of commodities by commercial divisions and trade regions; an analysis of the major movements in leading world commercial products; the chief world trade routes; an analysis in some detail of the trends of trade in selected regions.

*Two hours*, second semester. M. W., 8. PROFESSOR JONES

**37a. General Principles of Anthropogeography.** This course considers the operation of geographic factors in the economic, social and political development of peoples; the influences of location, area, relief, coastlines, drainage systems, climate, and other geographic conditions both separately and in their mutual inter-play. Ellen C. Semple's *Influences of Geographical Environment* is used as a text.



Prerequisites, 9 hours of Geography or History and permission of the instructor.

*Three hours*, first semester. M. T. W., 2.

PROFESSOR EKBLAW

**370. Research in Anthropogeography.** PROFESSOR EKBLAW

**375a. Geography of Europe.** This course includes a study of the climate, relief, coastline and marginal seas of the continent as a whole, to be followed by a detailed consideration of the ethnic, economic and political geography of the Eastern European states. These include Finland, Poland, Roumania and the Soviet Republics.

Prerequisite, 6 hours of European history.

*Two hours*, first semester. M. W., 4. PROFESSOR EKBLAW

Omitted in 1931-32, to be offered in 1932-33, alternates with 201.

**376a. The Geography of the Mediterranean Region**, especially in relation to Ancient History. Lectures and assigned readings. A geographical interpretation of ancient history in Mediterranean lands, embracing a study of the various geographic factors operative in the countries bordering this enclosed sea under the peculiar influences of the Mediterranean climate, at a time when the Mediterranean constituted most of the known world.

Prerequisites, 9 hours of Geography or History, and permission of instructor.

*Three hours*, first semester. M. Tu. W., 10. DR. BAUGH

**380. Research in Regional Geography.**

One or more members of the STAFF

**383a. Caribbean America.** A lecture and research course on the geography of Mexico, the Central American states, and the islands bordering the Caribbean Sea; the historical background of the republics and the islands of the Caribbean; the major geographic regions of the different countries; the economic positions of the republics and islands; economic and other problems facing the various regions; the expansion of the United States into the Caribbean; the commercial importance of the various republics

and islands as a market for manufactured wares and as a source of foodstuffs and raw materials.

*Three hours*, first semester.

PROFESSOR JONES

Omitted in 1931-32, to be offered in 1932-33 and alternate years.

**384b. South America.** A geographic survey of the continent of South America; the major physiographic regions and the chief climatic types; the distribution of vegetation; transportation; the population; the major problems facing the South American republics; the major geographic regions of the several countries; South America as a source of raw materials and foodstuffs and as a market for manufactured wares.

*Three hours*, second semester. Tu. Th. S., 9.

PROFESSOR JONES

**History 22. The Pacific and the Far East.** (For description see announcement of Department of History and International Relations.)

*Three hours*, through the year. M. W. F., 10.

PROFESSOR BLAKESLEE

**392a. Field Methods and Studies.** An intensive field study of a selected locality. For several years sections of the Connecticut Valley were studied. In 1931 the locality selected was Cape Cod.

Required of all candidates for graduate degrees in geography who have not previously had a field course or field experience equivalent to this.

## HOME STUDY COURSES IN GEOGRAPHY

There are many teaching Geography in the schools of this country who have not had an opportunity to receive adequate special instruction in this field of work. During the last few years there have been notable developments in the methods used in the teaching of Geography and notable changes in the political geography of the world. The human point of view should now dominate in all of the instructional work done with children; the subject should broaden the knowledge and world sympathies of the American people. It is necessary for all teachers of Geog-

raphy who wish to be abreast of the times to carry on in some way their own study and training.

The University wishes to extend its services as widely as possible for the betterment of the teaching of Geography, and therefore, in addition to the regular resident courses and the Summer School work, is offering a series of Home Study Courses. Professor Ridgley is in immediate charge of this work.

### COURSES

1. The Teaching of Geography in the Elementary School.
- 1a. The Teaching of Geography based on the New York State Syllabus. Grades 3, 4, 5, and 6.
2. The Teaching of Home Geography and World as a Whole.
- 2a. The Teaching of Third Grade Geography based on the New York State Syllabus.
3. The Teaching of North America.
4. The Teaching of South America, Europe and Asia.
5. The Teaching of Geographic Factors and the United States in its World Relations.
- 5a. Visual Aids in Teaching.
6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
- 9a. Home Study Course for European Travel.
10. Geography of the Eastern Continents.
11. The Physical Geography of the Lands.
12. Fundamentals of Climate.
13. Climates of the World.
14. Climatology of the United States.
15. Mathematical Geography.
16. Graphics and Cartography.
17. Special Studies in Geography.

### CREDITS AND TUITION

Each course consists of 36 written lessons and is intended to be the equivalent of a college course taken in residence, meeting

three times per week for a semester of 18 weeks. In general, the preparation and the writing of each lesson is expected to require about four or five hours.

The tuition for each course is eighteen (\$18.00) dollars, payable at the time of enrollment. A course may be begun at any time, but it should be completed within 12 months.

Further information about these courses will be sent upon the receipt of a request. Address all communications to Clark University, Home Study Department, Worcester, Mass.

## THE SUMMER SCHOOL

The session of 1932 will begin June 27 and end August 5. Instruction will be offered in Geography, Geology, History, Economics, and English.

Qualified students are admitted upon presentation of proper credentials. Both undergraduate and graduate work is offered. Work done in the Summer School may be counted, subject to the regulations of the College and the Graduate Boards and of the Faculty of the University, toward fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Education and graduate degrees. Unless otherwise announced, each course is intended to be the equivalent of a course meeting two hours per week throughout a semester and is credited, when accepted toward the fulfillment of the requirements for a Bachelor's degree in this University, for two semester hours.

The tuition charges are twenty dollars for a single course meeting five times a week and thirty-five dollars for two or more courses. Rooms in the vicinity of the University cost from three dollars a week up, and the University Dining Hall provides board at a reasonable rate.

*The Summer School Bulletin*, published about February 1, contains detailed information about the coming session with descriptions of the various courses, and may be had upon application to the Director of the Summer School, Clark University, Worcester, Mass.

The names of the students who attended the Summer School in 1931 will be found in the Register at the end of this catalogue.

### FIELD TRIPS FOLLOWING THE SUMMER SCHOOL

The field trips of 1932 are the continuation of a plan inaugurated by Clark University Summer School in 1924 for the study of geography out-of-doors.

**Washington and Middle West Field Trip.** Saturday, August 6, to Friday, August 26, 21 days.

This trip starts at Clark University and proceeds by motor coach to New York, Philadelphia, and Washington, then to Pittsburgh, and Chicago, returning along the shores of Lake Erie. This trip



will be in charge of Professor George F. Howe, Head of the Geography Department, State Normal School, New Britain, Connecticut.

**Appalachian Highland Field Trip for New York State Teachers.** Saturday, August 13, to Friday, August 26, 14 days.

This trip starts at Oswego, New York, and proceeds by motor coach southward along the Appalachian Highlands to Asheville, North Carolina, returning through Richmond, Virginia, Washington, and Philadelphia. This trip will be in charge of Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York.

Full information concerning these trips will be furnished on request.

## OFFICERS OF INSTRUCTION AND ADMINISTRATION

WALLACE WALTER ATWOOD, PH.D. Geography  
President of Clark University and Director of the Graduate School of Geography.

DOUGLAS CLAY RIDGLEY, PH.D. Geography  
Director of the Summer School and Professor of Geography in Education, Clark University.

CLARENCE FIELDEN JONES, PH.D. Geography  
Professor of Economic Geography, Clark University.

ELLSWORTH HUNTINGTON, PH.D. Geography  
Professor of Geography, Yale University.

EUGENE VAN CLEEF, PH.D. Geography  
Professor of Geography, Ohio State University.

GEORGE S. CORFIELD, A.M. Geography  
Instructor in Geography, State Normal School, Salem, Mass.

GUY H. BURNHAM, A.M. Cartography  
Cartographer, Clark University.

HOMER PAYSON LITTLE, PH.D. Geology  
Dean of the College and Professor of Geology, Clark University.

DWIGHT E. LEE, PH.D. History  
Associate Professor of Modern European History, Clark University.

EDGAR C. BYE, A.M.	History
Professor of Social Studies, State Teachers' College, Montclair, New Jersey.	
SAMUEL J. BRANDENBURG, PH.D.	Economics
Professor of Economics and Sociology, Clark University.	
ROBERT S. ILLINGWORTH, A.M.	English
Associate Professor of English, Clark University.	
CAREY EYSTER MELVILLE	Registrar
FLORENCE CHANDLER	Bursar

### LIST OF COURSES

The starred courses (\*) are those definitely intended, by the department concerned, for students who are candidates for the degree of Master of Arts in Clark University, but the courses are not restricted to such students.

### GEOGRAPHY

SS11. Field Work in Geography.	MR. CORFIELD
SS12. Weather, Climate and Man.	DR. VAN CLEEF
SS14. Economic Geography	DR. JONES
SS120. Human Geography.	DR. HUNTINGTON
SS180. Visual Aids in Geography and History.	MR. CORFIELD
SS181. The Teaching of Geography.	DR. RIDGLEY
SS182. A Survey of the New York State Course of Study in Geography.	MR. CORFIELD
SS190. Mathematical Geography.	MR. BURNHAM
SS191. Graphics and Cartography.	MR. BURNHAM
*SS24. Geography of South America.	DR. JONES
*SS28. Geography in Education for Special Teachers.	DR. RIDGLEY
*SS238. Social Geography	DR. HUNTINGTON
*SS285. Geography of Europe	DR. VAN CLEEF
*SS30. Seminar in Geography.	THE GEOGRAPHY STAFF
*SS32. Research in Climatology, or in Geography of Europe.	DR. VAN CLEEF
*SS34. Research in Economic Geography, or in Regional Geography.	DR. JONES

## GEOLOGY

SS1. Physical Geology.

DR. LITTLE

## HISTORY

\*SS22. European International Relations, 1870 to 1919

DR. LEE

\*SS211. History of Europe in the Nineteenth Century

DR. LEE

SS11. Observational History of Massachusetts.

PROFESSOR BYE

SS16. The Teaching of History.

PROFESSOR BYE

SS116. American Life and History, 1607-1783.

PROFESSOR BYE

## ECONOMICS

SS2. Problems of Economics.

DR. BRANDENBURG

\*SS5. Economic History of Western Europe.

DR. BRANDENBURG

## ENGLISH

SS1. The Teaching of English in Junior and Senior High  
Schools.

PROFESSOR ILLINGWORTH

SS2. Modern Poetry

PROFESSOR ILLINGWORTH

SS3. Public Speaking

PROFESSOR ILLINGWORTH

## THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in extension courses offered at the University during the regular academic year, or in such regular university courses as may be open to them:

*Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.*

A normal program for Summer School students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses (designated as "Extension Courses") are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on Extension Courses and Special Students, for which the University Registrar acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. **ADMISSION REQUIREMENTS.** The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. **REQUIREMENTS FOR THE DEGREE:**

- a. At least one year's teaching experience.
- b. At least 30 semester hours of credit earned *in residence* at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
- d. Requirements in particular subjects:
  - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course.
  - (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal school course.
  - (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
  - (4) Ten semester hours of foreign language, which may be taken in whole or in part in the Normal School course.
  - (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course.

3. **STANDARD OF SCHOLARSHIP:** The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. **ADVANCED STANDING:**

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours credit may be allowed for home study or extension courses other than the extension courses offered by Clark University expressly for can-



# CLARK UNIVERSITY BULLETIN

No. 91

FEBRUARY, 1932

EXTENSION COURSES OF COLLEGE GRADE  
FOR TEACHERS AND OTHERS  
TO BE OFFERED  
IN THE

SECOND SEMESTER  
1931-32

OPEN TO MEN AND WOMEN. COURSES MEET  
ONCE A WEEK. LATE AFTERNOON,  
AND SATURDAY MORNING

# PROGRAM OF COURSES

## MONDAY

4:20— 6:00	ELEMENTARY FRENCH. Dougherty ADVANCED INTERMEDIATE FRENCH. Churchman PRACTICAL FRENCH. Atwood GERMAN. Bosshard
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## TUESDAY

4:20— 6:00	BIOLOGY. Pomerat
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## WEDNESDAY

4:20— 6:00	AMERICAN LITERATURE. Baker
5:00— 5:50	FRENCH SEMINAR

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## THURSDAY

4:20— 6:00	ECONOMICS. Brandenburg
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## FRIDAY

4:20— 6:00	BOTANY. Potter
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## SATURDAY

10:00—11:40	SHORT STORY. Dodd
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The BULLETIN is published in January, February, March, April, May, June October, November and December. Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

## Aim and Character of the Extension Work

Clark University will again offer during the second semester of this academic year (1931-32) a series of Extension Courses. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

In *content* those courses which primarily have the needs of the teacher in view will aim to provide up-to-date, exact, and scholarly surveys of subject matter. An effort will be made to touch also upon *aims* and *methods*, and to provide a background for the solution of practical problems of the classroom.

All of these Extension Courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are strictly of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the Master of Arts degree should secure the approval of their major departments in each case.

### Date of Opening

Classes will meet for organization and the beginning of work during the week Feb. 1-6, 1932,

on the day specified in the description of each course.

**Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.**

## **Registration and Charges**

Registration is completed by presenting or mailing to the Bursar an enrollment card for each course, accompanied by the fee.

Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the University Registrar. Matriculated students receive official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

**Class lists for all courses will be closed Feb. 20, 1932, and all fees are payable by noon of that date. Enrollment after that date will be possible only in special cases, with the consent of the Registrar.**

**A late registration fee of one dollar for each week of delay will be charged in all cases when the fee is paid after the above date.**

## **Standards, Credit, Terms of Admission**

Only courses of college grade will be given but students without the conventional preparatory

training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 or 100 minutes. The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; one-hour afternoon courses will usually run from 5:00 to 5:50; hours for Saturday and evening courses will be decided by the individual instructors.

**Credit.** When accepted for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

**Regular outside preparation or collateral reading** is expected in every course, except in the case of "auditors." This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as "auditors."

In view of the outside work required it is obviously unwise for students who are otherwise busy to attempt many extension courses at the same time. By vote of the committee on extension work, persons who are in any full-time employment will not hereafter be permitted to register at any one time for courses carrying more than four semester hours of credit.

FOR FURTHER INFORMATION, ADDRESS:

C. E. MELVILLE, *Registrar*.



# LIST OF COURSES

**NOTE:** Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

## Biology

1. **BOTANY.** The first part of the second semester will be spent in a study of type specimens of the slime moulds, bacteria, blue green algae, the true algae, fungi, mosses, ferns and club mosses. The last half of the semester will be devoted to an introduction to Systematic Botany. Methods of collecting, pressing and mounting will be treated, together with practice in the use of keys for the purpose of identification and classification of plants.

*Two semester hours*

*Fridays, 4:20-6:00*

MR. POTTER.

2. **FRESH WATER BIOLOGY.** A study of aquatic organisms, both plant and animal, and their relations to the physical, chemical, and biological conditions of lakes and streams. The textbook for this course is Ann Morgan's "Field Book of Ponds and Streams." Emphasis will be placed upon aquatic animals during the second semester. A study of representative invertebrate and vertebrate types will be made.

*Two semester hours*

*Tuesdays, 4:20-6:00*

MR. POMERAT.

## Economics and Sociology

**ECONOMIC AND SOCIAL PROBLEMS.** This course is designed particularly for teachers of any of the social sciences in intermediate and secondary schools; it should also be illuminating to those

persons who have an intelligent interest in our current economic and social life. It is a continuation of the course offered during the first semester of the current academic year, but the two semesters may be elected as separate units. The course considers the economic and sociological aspects of important contemporary problems such as: price levels and business cycles; speculation; tariffs in their regional, national, and international aspects; taxation; transportation; mass production and distribution; cooperation; profit sharing and other economic reform proposals. Topics studied during the first semester may be reconsidered if the class so desires. Lectures, required readings, discussions, and written tests. Primary text, Patterson and Scholz, *Economic Problems of Modern Life*.

*Two semester hours*

*Thursdays, 4:20-6:00*

MR. BRANDENBURG.

## English

1. THE SHORT STORY. A reading course in the short story: Irving, Hawthorne, Stevenson, Harte, Poe, Garland, Henry James, Van Dyke, Kipling, Margaret Deland, Edith Wharton, Richard Harding Davis, Galsworthy, Zona Gale, Edna Ferber, Tarkington, Katherine Mansfield, and many others. Oral and written reports required. Original short stories, in place of these reports, will be accepted from those who desire to practice the short story art.

The course is designed both for auditors and those who wish an official record. The first half of each meeting will be devoted to a lecture, biographical and critical in nature, and the second to the presentation and discussion of the class reports.

Auditors need not remain for the second half of the meeting.

*Two semester hours*

*Saturdays, 10-11:40*

MR. DODD.

2. AMERICAN LITERATURE OF THE LAST FIFTY YEARS. Highlights in poetry and prose produced in America during the last half century are chosen for study. The choice of readings, somewhat determined by amount of available time and the students' preferences, will come from several poets and short story writers, a few novelists and perhaps certain essayists. Books used in the course will be on "reserved shelves" in the University Library.

As a supplement to the reading, lectures, discussions and outside written reports.

*Two semester hours*

*Wednesdays, 4:20-6:00*

MR. BAKER

## French

1. ELEMENTARY COURSE. Upon the completion of the reading and composition in Maloubier, *Au Jour le jour*, Part I, the work of the second term will be of fourfold nature, as follows: (1) a considerable amount of reading, both prepared and at sight, in a carefully graded reader; (2) a review of elementary grammar in Richardson, *An Outline of French Grammar*; (3) continued drill and practice in pronunciation; (4) illustrated lectures on the cities and provinces of France, given in French for the express purpose of developing the ability to understand the spoken language. Open to new students who have had one or two years of French.

*Two semester hours*

*Mondays, 4:20-6:00*

MR. DOUGHERTY.

2. ADVANCED INTERMEDIATE COURSE. A continuation of the work of the first semester, but open to new registrants who have had three years of good training in fundamental French. Completion of the Fraser and Squair *New Elementary French Grammar* and of the Churchman-Hacker *First Phonetic French Course*, with particular emphasis on oral exercises. These will be followed by Brown and Chapman's *French Composition and Conversation*. This course may also be taken at the fourth-year level by students who, in addition to the regular work, do certain assignments in outside reading.

*Two semester hours*

*Mondays, 4:20-6:00*

MR. CHURCHMAN.

3. PRACTICAL FRENCH. The main purpose of this course is to develop the ability to comprehend spoken French and to express oneself idiomatically in every-day speech. There will be a limited amount of drill in writing, in order to review grammatical principles. Open to those who possess a working knowledge of fundamental French grammar.

*Two semester hours*

*Mondays, 4:20-6:00*

LELAND S. ATWOOD

4. SEMINAR. Discussions, usually in French, of current topics in French literature and civilization, and occasionally of some problem connected with the teaching of the language. Open without fee or credit to all interested persons.

*Wednesdays, 5:00-5:50*

NOTE: Beginning next year it will be the policy of the French department to limit credit in the Advanced Course to two years, and this only provided the content of the course is different in each of the two years. On the other hand, it is hoped that work in the Seminar can be so arranged that this course may be taken for credit by those who have completed three years of extension French, and that this work may be supplemented by a course in oral work and composition designed in particular to aid in the preparation and criticism of papers presented at the Seminar. The following series of courses in French would thus be available: (1) Beginners; (2) Elementary; (3) Advanced (credit limited to two years), (4) Seminar (no limit on number of years taken for credit) (5) Supplementary Composition and Oral Work (for credit students in Seminar).

## German

INTERMEDIATE COURSE. A continuation of the work of the first semester. The main purpose of the course is to develop reading and speaking ability. Reading, elements of grammar reviewed, composition, speaking. New students admitted. Any who may wish to take the course at the third-year level will have supervised supplementary work.

*Two semester hours*

*Mondays, 4:20-6:00*

MR. BOSSHARD.

## Sociology

See ECONOMICS AND SOCIOLOGY.



## STAFF

LELAND L. ATWOOD—Head of Department of Modern Languages, Worcester Polytechnic Institute.

GEORGE E. BAKER—Assistant Professor of English.

HEINRICH M. BOSSHARD—Assistant Professor of German.

SAMUEL J. BRANDENBURG—Professor of Economics and Sociology.

P. H. CHURCHMAN—Professor of Romance Languages.

LORING H. DODD—Professor of Rhetoric.

DAVID M. DOUGHERTY—Assistant Professor of Romance Languages.

C. M. POMERAT—Assistant in Biology.

DAVID POTTER—Assistant Professor of Biology.

## FACULTY COMMITTEE ON EXTENSION WORK

S. J. BRANDENBURG

VERNON JONES

H. P. LITTLE

C. E. MELVILLE

D. C. RIDGLEY

P. H. CHURCHMAN, *Chairman*



# CLARK UNIVERSITY

## BULLETIN

No. 85

MAY 1931

EXTENSION COURSES OF COLLEGE GRADE  
FOR TEACHERS AND OTHERS  
TO BE OFFERED  
IN THE  
FIRST SEMESTER  
1931-32

OPEN TO MEN AND WOMEN. COURSES MEET  
ONCE A WEEK. LATE AFTERNOON AND  
SATURDAY MORNING

# PROGRAM OF COURSES

## MONDAY

4:20—6:00	ADVANCED PRACTICAL FRENCH
4:20—6:00	GERMAN. Bosshard

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## TUESDAY

4:20—6:00	BIOLOGY. Pomerat and Potter
4:20—6:00	FRENCH. Churchman

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## WEDNESDAY

4:20—6:00	ECONOMICS. Brandenburg
4:20—6:00	ENGLISH. Baker

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## THURSDAY

4:20—6:00	ELEMENTARY BOTANY. Potter
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## FRIDAY

4:20—6:00	ADVANCED BOTANY. Potter
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## SATURDAY

10:00—11:40	ENGLISH. Dodd
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# SUPPLEMENTARY STATEMENT

September, 1931

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## FRENCH

The Department of French announces the following additions to the staff of instructors in extension courses:—

Dr. Leland L. Atwood, Professor of Modern Languages and Head of Department in the Worcester Polytechnic Institute.

David M. Dougherty, Assistant Professor of Romance Languages in Clark University.

The following courses in French will be offered in the first semester of 1931-32:

1. ELEMENTARY COURSE (as described in the *Bulletin*).

*Mondays, 4.20-6.00*

MR. DOUGHERTY

2. ADVANCED INTERMEDIATE COURSE (as described in the *Bulletin*).

*Tuesdays, 4.20-6.00*

MR. CHURCHMAN

3. ADVANCED FRENCH. Open to students who have had two years of French, or its equivalent. A practical course, having as its object a comprehension of the cultural contributions of France, the development of conversational ability, and the writing of everyday French.

*Mondays, 4.20-6.00*

MR. ATWOOD

NOTE. All of these courses will be given if the registration justifies.

## GEOGRAPHY

It is a pleasure to announce that Professor Clarence F. Jones will probably give an extension course based upon his experiences in Porto Rico upon his return from research work in that island in the second semester.





## Aim and Character of the Extension Work

Clark University will again offer during the academic year (1931-32) a series of Extension Courses. Some of these courses, both in respect to content and time of meeting, are particularly intended for teachers in the schools of Worcester and the surrounding region. Many of them, however, have no such limited objective, but should appeal to the public on the grounds of utility or general culture.

In *content* those courses which primarily have the needs of the teacher in view will aim to provide up-to-date, exact, and scholarly surveys of subject matter. An effort will be made to touch also upon *aims* and *methods*, and to provide a background for the solution of practical problems of the classroom.

All of these Extension Courses are open to mature persons who, in the judgment of the instructor, are suitably prepared. Those who do not desire official records of work done are admitted as "auditors" and are not required to "matriculate." The courses are strictly of college grade and may be used for credit by those who are formally enrolled as candidates for the degree of Bachelor of Education in this University. Candidates for the degree of Bachelor of Arts may include these courses in their programs only when official authorization in advance is secured from the College Board. In similar circumstances candidates for the degree of Master of Arts should secure the approval of their major departments.

### Date of Opening

Classes will meet for organization and the beginning of work during the week Sept. 28—Oct. 3

on the day specified after the description of each course.

Attendance at the first meeting and promptness at all classes are highly desirable. Early registration, even before the opening date, will be of assistance in determining which courses shall be given; those courses for which a good demand is evident early will naturally receive the preference.

## Registration and Charges

Registration involves the filling out of an enrollment card and the paying of a fee. Students are not enrolled until the *enrollment card and the fee* for each course have been received by the Bursar. Those who desire to avoid the delay involved in making payments at the office of the Bursar may enroll by mail.

Tuition charges are \$8.00 for a course meeting one hour a week for one semester, and \$15.00 for a course meeting two hours a week for one semester. Tuition is due at or before the first meeting of each course.

The matriculation fee of \$5.00 is a charge for the opening of an official record in the office of the University Registrar. Matriculated students are given official certificates on which credit toward a degree may be granted at Clark University or elsewhere, subject to the standing regulations of the institution to which they may be presented.

Class lists for all courses will be closed Oct. 17, 1931. Enrollment after that date will be possible only in special cases, with the consent of the Registrar.

A late registration fee of one dollar for each week of delay will be charged in all cases when the fee is paid after the above date.

## Standards, Credit, Terms of Admission

Only courses of college grade will be given, but students without the conventional preparatory training may be admitted to any course at the discretion of the instructor.

Courses will meet for periods of 50 to 100 minutes. The usual hours for afternoon courses running for 100 minutes will be from 4:20 to 6:00; one-hour afternoon courses will usually run from 5:00 to 5.50; hours for Saturday and evening courses will be decided by the individual instructors.

**Credit.** When accepted for undergraduate credit in this University, one semester hour will normally be granted for a two-hour course (100 minutes) meeting 8 times, or a one-hour course (50 minutes) meeting 16 times, and two semester hours for a two-hour course (100 minutes) meeting 16 times.

**Regular outside preparation or collateral reading** is expected in every course, except in the case of auditors. This outside work will be similar in amount to the preparation expected in regular undergraduate courses, namely an average of two hours per week for each semester hour of credit in the course. Those who prefer to attend without doing any outside work are welcome, but will be classed as auditors.

In view of the outside work required it is obviously unwise for students who are otherwise busy to attempt many extension courses at the same time. By vote of the committee on extension work, persons who are in any full-time

employment will not hereafter be permitted to register at any one time for courses carrying more than four semester hours of credit.

FOR FURTHER INFORMATION, ADDRESS:

C. E. MELVILLE, *Registrar*.

## LIST OF COURSES

**NOTE:** Any course for which there are fewer than 20 registrations at the time of the second scheduled meeting may be discontinued at the discretion of the instructor in charge.

### Biology

1. BOTANY—ELEMENTARY COURSE. A study of the major groups of the Plant Kingdom. The first semester will be devoted to a consideration of the structure and function of plants, their classification and their relation to their environment. The first part of the second semester will be spent in a study of type specimens of the slime moulds, bacteria, blue-green algae, the true algae, fungi, mosses, ferns and club mosses. The last half of the semester will be devoted to an introduction to Systematic Botany. Methods of collecting, pressing and mounting will be treated, together with practice in the use of keys for the purpose of identification and classification of plants. (This course will continue through the year, but either semester may be taken separately.)

*Two semester hours each semester*

*Thursdays 4:20—6:00*

MR. POTTER

2. BOTANY—ADVANCED. A systematic study of the flowering plants, with special emphasis upon our local flora.

*Two semester hours*

*Fridays 4:20—6:00.*

MR. POTTER



3. THE BIOLOGY OF ANIMALS. This course aims to furnish a basis for the interpretation of life as it appears in the animal world, including man. The study of a series of forms of increasing complexity develops a conception of what an animal is, and how animals have solved the problem of existence in changing surroundings. Structures and activities are considered in relation to each other and to the animal as a whole. The emphasis during the first semester will be placed on the invertebrates. The second semester will be devoted to the backboned animals. Lectures, demonstrations and occasional field trips. (This course continues through the year, but either semester may be taken separately.)

*Two semester hours*

*Tuesdays 4:20—6:00.*

MESSRS. POTTER AND POMERAT

4. FRESH WATER BIOLOGY. A study of aquatic organisms, both plant and animal, and their relations to the physical, chemical, and biological conditions of lakes and streams. The textbook for this course will be Ann Morgan's "Field Book of Ponds and Streams." (The course continues through the year, but either semester may be taken separately.)

*Two semester hours*

*Tuesdays 4:20—6:00.*

MESSRS. POTTER AND POMERAT

NOTE: Either Course 1 or Course 2, but not both, and either Course 3 or Course 4, but not both, will be given in accordance with demand. These courses will continue through the year, but either semester may be taken separately.

## Economics and Sociology

1. ECONOMIC AND SOCIAL PROBLEMS.—This course is designed particularly for teachers of any of the social sciences in intermediate or secondary schools. It considers the economic and sociological aspects of important contemporary problems such as: unemployment, its amount, causes, prevention and relief; unemployment insurance and other forms of social insurance; wage levels and wage changes; standards and costs of living among various groups; profit sharing, customer and employee stock ownership; mass production, mergers and monopolies; chain stores, installment buying, speculation; tariffs and farm relief; international trade and world economic relationships. Lectures, required readings, discussions, and written tests.

*Two semester hours*

*Wednesdays, 4:20—6:00*

MR. BRANDENBURG

## English

1. NEW BOOKS AND OLD. Against the background of the older literature, and with reference to it whenever opportunity offers, the best books of the current season will be read and studied—novels, short stories, plays, biography and poetry.

The course is designed to meet the needs of both auditors and those who desire credit. For the former the lecture during the first half of each meeting will discuss critically the books selected and their authors, and typical excerpts will be read aloud. For the second half of the meeting—for which, if they wish, auditors may also remain—those desiring credit will offer written or oral reports, and there will be round table discussion.

The books selected for the course will be found on the shelves of the University library.

*Two semester hours*

*Saturdays* 10:00—11:40

MR. DODD

**NOTE:** This is not a repetition of the course given in 1930-31 under the same title.

2. THE CONTEMPORARY ENGLISH NOVEL. This course endeavors, chiefly by means of a series of lectures on representative present-day novelists, (1) to bring out the multiple influences, hereditary and environmental, which underlie the genius of each writer; and (2) to suggest the trends of contemporary English prose fiction since the time, toward the end of the nineteenth century, that Samuel Butler wrote *The Way of All Flesh* and sought virtually to blast that full-blown flower "Victorianism."

A selection of novels by each major author which seem to the instructor to be novels of more than passing interest will be the basis of class discussion. Members of the course desiring credit will read approximately eight assigned novels, all of such length as comfortably to be read in a fortnight apiece. These members will be tested on their reading in an appropriate way. Reading lists, including recommended novels, biographical and critical matter, will be submitted with each author coming under consideration as an invitation to further reading.

*Two semester hours*

*Wednesdays*, 4:20—6:00

MR. BAKER

## French

NOTE 1. If possible all three of the courses listed below will be given, but only two can now be promised. Early registration will assist the decision.

NOTE 2. Teachers and other advanced students may take either Course 1 or Course 2 for credit, provided they do certain assigned "background work" in phonetics and grammar and hand in regular reports on books on the methods of teaching modern languages.

1. ELEMENTARY COURSE.—A general introduction to the language, with reading ability as its ultimate aim, but using oral work based on phonetics, and making a careful study of the fundamentals of the grammar, with application to spoken and written French. Churchman's *Phonetic Gateway to French*; Fraser and Squair's *New Elementary French Grammar*. A course for beginners, which may also be taken at the second-year level by those who do specified "background work" in more advanced texts.

*Two semester hours*

*Tuesdays, 4:20-6:00*

MR. CHURCHMAN

2. ADVANCED INTERMEDIATE COURSE.—A continuation of the intermediate course given in 1930-31. Work will be resumed in the Churchman-Hacker *First Phonetic French Course* and the Fraser and Squair *New Elementary French Grammar*, at the points reached in June, 1931. Reading in the modern short story. Oral work. The general nature of the course is similar to that of the intermediate course, though slightly more difficult. Open to any one with a basic knowledge of French. This course may also be taken at the fourth-year level by students who, in addition to the regular work, do certain assigned "background work."

*Two semester hours*

*Tuesdays, 4:20-6:00*

MR. CHURCHMAN

3. ADVANCED PRACTICAL FRENCH.—The exact nature of this course will be announced later.

*Two semester hours*

*Mondays 4:20-6:00*

## German

One of the two courses will be given. The choice depends upon demand.

1. ELEMENTARY GERMAN. The main purpose of this course is to develop reading and speaking ability: elements of grammar, composition, reading of easy texts designed to acquaint the students with Germany and the German people.

*Two semester hours*

*Mondays 4:20-6:00*

MR. BOSSHARD

2. INTERMEDIATE GERMAN. A continuation of the beginners' course; elements of grammar reviewed. Students who wish to take the course at the third-year level will have supervised supplementary work.

*Two semester hours*

*Monday 4:20-6:00*

MR. BOSSHARD

## Sociology

(See Economics and Sociology)

### INSTRUCTORS

G. E. BAKER—Assistant Professor of English.

HEINRICH M. BOSSHARD—Assistant Professor of German.

S. J. BRANDENBURG—Professor of Economics and Sociology.

P. H. CHUBCHMAN—Professor of Romance Languages.

L. H. DODD—Professor of Rhetoric.

C. M. POMERAT—Assistant in Biology.

DAVID POTTER—Assistant Professor in Biology.



FACULTY COMMITTEE ON EXTENSION  
WORK

S. J. BRANDENBURG

VERNON JONES

H. P. LITTLE

C. E. MELVILLE

D. C. RIDGLEY

P. H. CHURCHMAN, *Chairman,*

didates for this degree. The acceptance of any work of this type is subject to the approval of the Registrar.

5. **LAPSE OF CANDIDACY.** By vote of the committee on the degree of Bachelor of Education candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

### SPECIAL COURSES FOR TEACHERS

In keeping with its long established policy, Clark University offers a series of Extension Courses designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these extension courses.

During the academic year 1931-32, the following courses have been given:

#### BIOLOGY

- |                        |             |
|------------------------|-------------|
| 1. Elementary Botany   | MR. POTTER  |
| 2. Fresh Water Biology | MR. POMERAT |

#### ENGLISH

- |  |           |
|--|-----------|
| 1. New Books and Old                           | MR. DODD  |
| 2. The Contemporary English Novel              | MR. BAKER |
| 3. The Short Story                             | MR. DODD  |
| 4. American Literature of the Last Fifty Years | MR. BAKER |

#### FRENCH

- |                                 |               |
|---------------------------------|---------------|
| 1. Elementary Course            | MR. DOUGHERTY |
| 2. Advanced Intermediate Course | MR. CHURCHMAN |

3. Advanced French
4. Seminar

MR. L. L. ATWOOD  
MR. CHURCHMAN

#### GERMAN

1. Intermediate Course

MR. BOSSHARD

#### SOCIOLOGY

1. Economic and Social Problems

MR. BRANDENBURG

# DEPARTMENTAL ANNOUNCEMENTS

Courses offered by the several departments are listed under three headings:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).
2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES, designated by numbers beginning with the figure (2).
3. PRIMARILY FOR GRADUATE STUDENTS, designated by numbers beginning with the figure (3).

Unless a statement to the contrary is made, all courses listed have been given during the current academic year and will be offered in 1932-33.

Credit for the first semester alone will be given in all courses except in cases where a Department, by a note following the description of the course, specifically reserves the right to withhold credit until the second semester of the course is satisfactorily completed.

Any course may be entered at the beginning of the second semester, with the consent of the instructor, by students who are prepared to take up the work of the course at that time.

## DEPARTMENT OF ANCIENT LANGUAGES

PROFESSOR BRACKETT

All courses in Greek and Latin are designed primarily for undergraduates. To any of these courses, however, properly qualified graduate students may be admitted by special permission.

For a major in Ancient Languages the requirement is twenty-four semester hours from the courses described below.

Provision is made in the courses in Greek both for students who have previously studied Greek in the high school, and for those who wish to begin the subject in college. Those who have pursued successfully the study of Greek for two or three years may enter directly into course 12. Students who intend to study Greek in college are strongly advised to take this subject in the preparatory school for two years if possible.

Since a substantial number of students are admitted to the college who have not previously studied Latin, the department from time to time offers to such students an opportunity to take an introductory course in this subject.

## COURSES IN GREEK

### 1. PRIMARILY FOR UNDERGRADUATES

**11. First Year Course.** The purpose of this course is to furnish to students who have never studied Greek an opportunity to begin this subject in college. The course not only has in view the needs of students of language and literature, but in connection with the use of Greek in scientific terminology should have value for students of science as well.

Divisible only in special cases with the approval of the Department.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10.

MR. BRACKETT

**12. Xenophon, *Anabasis*; Homer, *Iliad*.** About ten weeks at the beginning of the year are devoted to reading selections from the *Anabasis*, the principal aim being to increase the student's facility in translation. The remainder of the year is devoted to the *Iliad*. The aim in this work is distinctly literary. In order that the student may gain an appreciation of the poem as a whole, the entire poem is read, partly in Greek and partly in various verse translations.

Open to Freshmen.

*Three hours*; through the year.

MR. BRACKETT

Omitted in 1931-32.

**13. The Greek Drama.** Aeschylus, *Prometheus Bound*; Sophocles, *Antigone*; Euripides, *Medea*. This course is designed to give a general view of Greek tragedy. Lectures or collateral reading deal with the staging of a Greek play, the origin and development of the drama, and the other works of the authors read.



Two or three other plays of each of these authors are read in translation and discussed in class.

*Three hours*, through the year.

MR. BRACKETT

Omitted in 1931-1932.

**16b. Greek Tragedy in English.** This course deals with Greek tragedy as represented in the extant works of Aeschylus, Sophocles, and Euripides. All the reading is done in English translations, for the most part in verse. The central aim of the course is an intelligent and appreciative reading of the plays. Much attention is devoted to the connection between Greek and modern drama. The instructor will deal, in lectures, with the origin and development of Greek tragedy, the Greek theatre and related subjects, and Aristotle's theories concerning tragedy.

*Three hours*, second semester.

MR. BRACKETT

Omitted in 1931-1932.

**Greek 17a. Greek History.** This course will cover the period from the beginnings of Greek history to 146 B.C. Special emphasis will be devoted to those elements in the history and civilization of Greece which are most significant in the life of the present time.

Open to Freshmen with the consent of the instructor.

*Three hours*, first semester.

MR. BRACKETT

Omitted in 1931-1932.

## COURSES IN LATIN

### 1. PRIMARILY FOR UNDERGRADUATES

**11. First Year Course.** This course is designed to give men who have never studied Latin an opportunity to learn the essentials of the subject in college. It is conducted entirely with reference to the needs of the general student and with emphasis on the practical usefulness of an acquaintance with Latin in everyday life.

Open to Freshmen.

Divisible only in special cases with the approval of the Department.

*Three hours*, through the year.

MR. BRACKETT

Omitted in 1931-1932.

**12. Catullus, Selections; Cicero, *de Senectute*: Horace,** Selections from the Odes. The year is about equally divided between the three authors. The study of Catullus and Horace is mainly literary; and in this connection a careful study is made of the nature and principles of literature.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 11.

MR. BRACKETT

**14b. Letters of Pliny; Selection from the Histories of Tacitus, and from Juvenal.** These authors are read with particular attention to the information the selections contain in regard to literary and social conditions under the empire.

*Three hours*, second semester.

MR. BRACKETT

Omitted in 1931-1932.

**15a. Selections from Caesar and Cicero.** This course is open to students who have had Latin 11 or its equivalent. The principal aim is to increase the student's ability to read Latin.

*Three hours*, first semester.

MR. BRACKETT

Omitted in 1931-1932.

**15b. Selections from Ovid's *Metamorphoses*.**

*Three hours*, second semester.

MR. BRACKETT

Omitted in 1931-1932.

**16a. Lucretius, *de Rerum Natura*, Selections.**

*Three hours*, first semester.

MR. BRACKETT

Omitted in 1931-1932.

**17b. Roman History.** This course will deal with the history of Rome from the earliest period to the downfall of the Western Roman Empire, with special emphasis upon those aspects of the history which have permanently influenced western civilization.

Open to Freshmen with the consent of the instructor.

*Three hours*, second semester.

MR. BRACKETT

Omitted in 1931-32.

## DEPARTMENT OF BIOLOGY

PROFESSOR HOAGLAND, ASSISTANT PROFESSOR POTTER, MR.  
POMERAT. ALSO PROFESSOR HUNTER AND ASSISTANT  
PROFESSOR GRAHAM OF THE DEPARTMENT OF  
PSYCHOLOGY\*

### GENERAL STATEMENT

The Department of Biology is on the second floor of the Main Building of the University. The laboratories are well-equipped for the courses offered and contain special equipment for advanced investigations in physiology. In addition, annual funds are available for the purchasing and building of apparatus as it may be required. A small herbarium and a synoptic collection of animals are available for study. The University Library contains complete files of the more important periodicals and reference works. Certain assistantships, fellowships and scholarships are available from time to time.

### UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the Department. This course is planned for students seeking a cultural education as well as for those who intend to enter professional biology, or medicine. Courses 12a, 14, 15a, 16b, and 17b are planned to give the undergraduate a working acquaintance with the fundamental aspects of zoology and botany and to serve as a biological background for premedical students or for those planning to do graduate work in Biology. Course 200 introduces the student to the behavior of living systems.

An undergraduate majoring in Biology is expected to complete:

1. Biology 11 and eighteen semester hours in advanced courses, chosen with the approval of the staff and including Biology 12a and 200. Attendance at weekly discussion groups is also expected.
2. Mathematics 10 or 11. Mathematics 12 is strongly advised.
3. Physics 11.

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\*Advanced courses in Psychology given by Professor Hunter and Professor Graham may, with the permission of the chairman of the department, be credited as courses in Biology.

4. Chemistry 11.

5. French or German to an amount sufficient to give a good reading knowledge.

Undergraduates who enter the major field of Biology in 1932 will be expected to minor in Chemistry or in Physics. Permission to minor in other fields may be granted by the Department of Biology in exceptional cases. Students who minor in Chemistry are advised to register for Chemistry 10 or 11, 13, 14 (first semester only), 19 (second semester), 15, and 110. Students who *minor* in Physics should take Mathematics 12 and Physics 11, 14, 15, 28a.

Students planning to study medicine are advised to obtain the A.B. degree majoring in Biology and minoring in Chemistry. The program outlined above is planned to give the student a foundation in the Biological and Chemical sciences. Biology 200, preferably taken in the senior year, brings to a biological focus, in the study of living organisms, many chemical and physical principles.

The above program, in certain respects, exceeds the minimal science requirements for entrance to the medical schools and in special cases other programs may be planned to cover these requirements.

## GRADUATE WORK

By action of the Board of Trustees, the Department of Biology was reorganized on a full graduate basis beginning in September 1931. Students whose records are approved by the Chairman of the Department may be admitted by the Graduate Board for work leading to the degree of Master of Arts in Biology or to the degree of Doctor of Philosophy in Physiology. The general plan of organization involves a relationship between the Department of Psychology and the Department of Biology whereby students in either department may be credited with certain advanced courses and research in the other. Certain advanced courses in the departments of Physics, Chemistry and Mathematics may also be credited in the department of Biology.

The general requirements for the Master's degree and for the Doctorate are stated elsewhere in this catalog. In addition to the



general requirements, the Department has a supplementary requirement that an additional copy of each doctor's dissertation must be deposited with the department.

The analysis of fundamental activities of living organisms is necessarily undertaken upon the basis of physico-chemical principles. For this reason a foundation in physics, chemistry and mathematics as well as in biology is essential for advanced work in physiology. General physiology bears a relation to medicine similar to that of physics to engineering and in recent years has developed rapidly as a fruitful field of investigation.

## COURSES IN BIOLOGY

### 1. PRIMARILY FOR UNDERGRADUATES

**11. General Biology.** A general introduction to the fundamental principles and problems of Biology. The first semester is devoted to plant biology and the second semester to animal biology. The course is prerequisite to all other courses in the department. All premedical students and all students intending to *major* in Biology should take the full year's work in Biology 11. Others may complete a year course by substituting Biology 14b for the second semester of Biology 11. Credit will not be given for the first semester of Biology 11 unless it is followed by the second semester of Biology 11 or Biology 14b.

Indivisible course.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10; W., 2.

MR. POTTER AND MR. POMERAT

**12. Vertebrate Zoology.** A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals. This course aims to provide a foundation for the study of the structure of man.

Lectures and laboratory work.

*Three hours*, through the year. W. F., 9; F., 2.

MR. POMERAT

Biology 12 will be offered as 12a, a first semester course, beginning in 1932-33.



**13. Seminar in General Biology.** Credit is not given for this course. All students in the department are invited to attend and to participate.

STAFF OF THE DEPARTMENT

**14. Botany.** First semester, morphology and taxonomy of the lower plants. A systematic study of type and of the important groups of the lower plants and a more detailed study of the Pteridophytes and Gymnosperms.

Second semester, systematic botany of the higher plants. A study of the interrelations of the flowering plants, their ecology, distribution and economic importance. The laboratory work consists of a critical study of types from the most important natural families. Particular emphasis is laid on our local flora.

Prerequisite, Biology 11, first semester.

*Three hours*, through the year. Tu. Th. S., 11; Th., 2.

MR. POTTER

Beginning in 1932-33, the first semester of Biology 14 will be offered as Biology 114a and the second semester as Biology 14b.

**15a. Invertebrate Zoology.** A detailed study of the structure, life history, habits, and distribution of invertebrate types. Emphasis is given to the general principles of evolution. Two lectures and two laboratory periods per week.

*Three hours*, first semester.

MR. POMERAT

Omitted in 1931-32. To be offered in 1932-33 and alternate years.

**16b. Histology.** A comprehensive course dealing with the cytology, tissue structure and organology of animals. Special emphasis is placed on the study of mamalian tissues and the application of this knowledge to problems in the field of general biology and medicine.

Two lectures and two laboratory periods per week.

*Three hours*, second semester.

MR. POMERAT

Omitted in 1931-32. To be offered in 1933-34 and alternate years.

**17b. Embryology.** A consideration of the fundamentals of embryology and the early history of development of the vertebrate body. Invertebrate material is utilized for laboratory work on the early stages while the chick and pig are studied for later development.

Two lectures and two laboratory periods per week.

*Three hours*, second semester.

MR. POMERAT

~~Offered~~  
~~Omitted~~ in 1931-32. To be offered in 1932-33 and alternate years.

**160. Microscopical Technique.** A course dealing with the preparation of tissues for study with the microscope. The principles of fixing, sectioning and staining will be worked out in the laboratory.

Hours and credit to be arranged.

MR. POTTER

To be offered in 1933-34 and alternate years, as Biology 18b.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**Biology 205 (200 in 1932-33). General Physiology.** Open to students who have passed Biology 11 and 12a or their equivalents and who satisfy the instructor as to their preparation in physics, chemistry and mathematics. Chemistry 11, Physics 11, and Mathematics 11, or their equivalents are prerequisite. Chemistry 19, second half, is advised.

The course is designed to give the student an acquaintance with the major problems of physiology. The nature of living substance is considered in terms of its component materials and their physico-chemical properties. The following topics are among those considered: cellular organization, permeability, catalysis and enzyme action, irritability and transmission, nutrition, respiration, growth, photosynthesis, tropisms, central nervous control, muscular contraction, the special senses, blood, endocrines, homeostatics and general organology.

Three lectures and two laboratory periods per week.

*Three hours*, through the year. Tu. Th., 10., and laboratory periods.

MR. HOAGLAND

**201a. Parasitism.** A general introduction to the parasitic habit as exhibited by Bacteria, Fungi, Protozoa, Worms, and Insects. An attempt is made to arrive at an appreciation of some of the principles involved in this widespread phenomenon. The chief reference is, Brumpt: *Precis de Parasitologie*. Two lectures and two laboratory periods per week.

*Three hours*, first semester.

Omitted in 1931-32. To be offered in 1933-34 and alternate years. MR. POMERAT

**202b. Genetics.** An introduction to the principles of genetics. Omitted in 1931-32. To be offered in 1932-33 and alternate years.

*Three hours*, second semester.

MR. POTTER

**203 (formerly 208). Special Problems.** Advanced semi-independent study of an approved topic under the direction of a member of the staff.

Hours and credit to be arranged.

STAFF OF THE DEPARTMENT

**205 (formerly 209). Seminar in Experimental Biology.** Credit is not given for this course. All students in the department are invited to attend and to participate.

STAFF OF THE DEPARTMENT

**Psychology 202. (Sense) Organ Functions.** (For description, see announcement of Department of Psychology).

*Two hours*, alternate years.

MR. GRAHAM

**Psychology 203. Reflex Activity.** (For description, see announcement of Department of Psychology).

*Two hours*, alternate years.

MR. GRAHAM

**Psychology 206a. Animal Behavior.** (For description, see announcement of Department of Psychology).

MR. HUNTER

**Psychology 207b. The Learning Process.** (For description, see announcement of Department of Psychology).

MR. HUNTER

## 3. PRIMARILY FOR GRADUATE STUDENTS

**306. Mechanisms of Reaction (seminar).** A treatment of the nature of the nerve impulse and of the correlation of central nervous activities; the effect of temperature on vital processes; photokinetic excitation; central nervous excitation and inhibition and the reflex control movement.

*Two hours, through the year.*

MR. HOAGLAND

**307. Readings in Physiology.** Open to candidates for the Doctorate in Physiology. Reading and tutorial conferences on special topics.

Credit to be arranged.

MR. HOAGLAND

**308. Research. Dynamics of Vital Phenomena.**

Credit to be arranged.

MR. HOAGLAND

**Psychology 305. Research in Animal Behavior and Sensory Physiology.** (For description, see announcement of Department of Psychology).

MESSRS. HUNTER AND GRAHAM

**Psychology 315. Quantitative Interpretation of Experimental Data.** (For description, see announcement of Department of Psychology).

## DEPARTMENT OF CHEMISTRY

PROFESSOR MERIGOLD, PROFESSOR WARREN, ASSISTANT  
PROFESSOR BULLOCK

The instruction offered in Chemistry falls into two main groups: First, courses intended primarily for undergraduates. These are designed for those students who wish to acquire the necessary foundation for professional work in Chemistry, for pre-medical students, and for those desiring some knowledge of the subject as part of their general education.

Second, courses intended primarily for graduates. These courses offer advanced instruction to students possessing the requisite foundation in Chemistry, Physics, and Mathematics, and afford training in the methods of chemical research.

## UNDERGRADUATE WORK

Students who expect to make Chemistry a profession should *major* in Chemistry and should either take a *minor* in Physics or at least two years' work in that subject.

Students intending to study Medicine should take as much work in Chemistry as possible. As minimum requirements for medical work, the following courses are essential: 11 or 12 (10), 13, 15, and 110. Pre-medical students wishing a more comprehensive course are advised to take 11 or 12 (10), 13, 14, 15, 18, 110, and 216. Attention is called to the statement regarding pre-medical courses under the announcement of the Department of Biology.

The attention of all students intending to enter undergraduate courses in Chemistry is called to the matter of the laboratory fees and breakage deposits on page 29.

## GRADUATE WORK

It is the purpose of the Department of Chemistry to provide the graduate student with that broad training in the fundamental principles of Chemistry which shall adequately equip him for a subsequent scientific career. A considerable number of the students entering this department for graduate work will naturally look forward to an academic career. It is not intended, however, to provide training for such men alone, for the equipment for technical research, whether for public or private interests, requires a thorough familiarity equally with the underlying principles of science and with the methods of experimental investigation. Whether a student shall devote himself to pure or to technical research is a matter of individual interest and inclination rather than of training. The purpose of the department is to provide the training on lines sufficiently broad to enable the student to exercise a choice between technical and purely scientific work.

## ADVANCED DEGREES AND RESEARCH

The requirements for advanced degrees cannot be met by the mere pursuit of a course of studies nor by the mere execution of a research. For this reason no definite course of graduate



studies is outlined, but the student is expected to carry such courses as will enable him to acquire a comprehensive knowledge of the subject of Chemistry during the course of his residence at the University. Students who are not fully prepared for graduate work will be required to make up any deficiencies either before undertaking graduate work or while at the same time taking a limited amount of graduate work. In such cases it is to be expected that the time necessary to obtain an advanced degree will be correspondingly extended.

All students registered for the advanced degrees are expected to devote not less than eighteen hours per week to laboratory work. A portion of the time may be devoted to special laboratory work in organic, inorganic and physical Chemistry.

Graduate scholarships are available for students in this department.

## COURSES IN CHEMISTRY

### 1. PRIMARILY FOR UNDERGRADUATES

**11. General Chemistry.** Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of Chemistry. Three lectures, and three hours of laboratory work per week.

Open to Freshmen who have studied Chemistry in high school.

*Three hours*, through the year. M. W. F., 11; M., 2.

MR. MERIGOLD

**12 (10).<sup>\*</sup> Elementary Chemistry.** Similar to course 11 in general nature and ground covered, but intended primarily for students having no knowledge of Chemistry on entering. Chemistry 12 is considered equivalent to course 11 as preparation for advanced courses.

Divisible only by consent of the instructor.

Open to Freshmen who have not studied Chemistry in high school.

*Three hours*, through the year. Tu. Th. S., 9; W., 2.

MR. BULLOCK

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<sup>\*</sup>Course 12 will be designated (10) beginning with the year 1932-33.

**13. Qualitative Analysis.** Basic and acid. Chiefly laboratory work, nine hours per week. Occasional lectures, and recitations upon the theories involved. Open only to students who have taken course 11 or its equivalent.

*Three hours, through the year.* Tu. F., 2. MR. BULLOCK

**14. Quantitative Analysis.** Chiefly laboratory work, with occasional lectures, recitations, and problems. A carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative manipulation, both gravimetric and volumetric. Six hours of laboratory work, and one lecture per week. Open only to those who take or have taken course 13.

*Three hours, through the year.* Tu., 3:30; Th., 2. MR. MERIGOLD

**15. Elementary Organic Chemistry.** Lectures and recitations on the fundamental principles of organic chemistry. This course is designed for beginners and for those who intend to study medicine. Open to all who have taken course 11 or its equivalent. Course 13 is also recommended.

*Three hours, through the year.* M. W. F., 8. MR. WARREN

**16. Qualitative and Quantitative Analysis.** Combined course designed for pre-medical students. Principles of *qualitative analysis* (basic and acid) and *quantitative analysis* (gravimetric and volumetric), as exemplified by the analysis of typical unknown substances. Chiefly laboratory work, nine hours per week. Occasional lectures, recitations and problems upon the theories involved. Open only to students who have taken course 11, or its equivalent.

This course is not accepted as preparation for Chemistry 214.  
*Three hours, through the year.*

Omitted in 1931-32. MESSRS. MERIGOLD AND BULLOCK

**18. Physical Chemistry.** Two lectures and three hours of laboratory a week, introducing the student to the principal chapters of modern chemical theory. To be admitted to this course, students must have passed Chemistry 11 and 14, and Physics 11.

A knowledge of organic chemistry and calculus is desirable. Divisible only by consent of the instructor.

*Three hours, through the year. Tu. Th., 10; F., 2*

MR. BULLOCK

**19. Elementary Physical Chemistry.** Lectures and recitations on the theoretical aspect of chemistry. Gases, liquids, solids and solutions will be treated and some time will be devoted to equilibria. An important part of the course is the solution of problems in connection with analytical and theoretical chemistry. Open to students who have completed Chemistry 13.

*Three hours, through the year. Tu. Th. S., 10. MR. BULLOCK*

**110. Organic Synthesis and Analysis.** Laboratory work, consisting of the preparation of typical organic compounds, qualitative testing for the ordinary elements and organic groups, the quantitative determination of carbon, hydrogen, nitrogen, and the halogens. Course 110 should be taken, if possible, in connection with course 15. The work of this course requires nine hours of laboratory work per week. Open only to students who take or have taken courses 13, 14 and 15.

*Three hours, through the year. M. Th., 2. MR. WARREN*

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**212b. History of Chemistry.** This course is intended to cover the historical development of the science. An attempt is made to give the student some knowledge of the individuality of the men whose work has resulted in the growth and development of modern Chemistry. Attention will be given also to the relation of Chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 15 and 18 or equivalent courses.

*Three hours, second semester. Tu. Th., 11. MR. MERIGOLD*

**214. Advanced Quantitative Analysis** (including Gas Analysis). Open only to students who have taken course 14. This course is primarily intended for those who expect to specialize in Chemistry, and may also be taken with advantage by those who

intend to study Medicine. The laboratory work will be varied, if desired, to meet the needs of individual students. Occasional lectures treat the subject systematically from both practical and theoretical standpoints. Laboratory work, nine hours per week.

*Three hours*, through the year. Tu. Th., 2. MR. MERIGOLD

**215. Advanced Organic Synthesis.** The preparation of more difficult organic compounds, including the investigation of an original subject. Open to all who have taken course 110.

*Three hours*, through the year. M. Th., 2, and an additional laboratory period. MR. WARREN

**216. Journal Reading.** Practice in the use of current chemical literature. Assignment of journals for report and discussion.

*Two hours*, through the year. Tu. F., 4. MR. WARREN

**217. Intermediates and Dyestuffs.** This course covers methods of preparation, properties and uses of the commoner intermediates employed in dyestuff manufacture followed by a study of typical representatives of the more important classes of dyestuffs. Lectures, collateral reading, reports and thesis.

Open to graduate students and undergraduates who take or have taken course 15.

*Three hours*, through the year. MR. BULLOCK  
Omitted in 1931-32.

**218. Advanced Organic Chemistry.** Lectures on selected subjects in organic chemistry and recitations. Open to all who have taken course 15.

*Two hours*, through the year. Tu. Th., 8. MR. WARREN

### 3. PRIMARILY FOR GRADUATE STUDENTS

**31. Advanced Inorganic Chemistry.** Discussion of special features of inorganic and analytical chemistry, theoretical and practical. Sources of error, limits of accuracy, preparation of pure inorganic materials and exact methods of analysis required in fields of research necessitating precise analysis. Principles of electro chemistry.

*Twice a week*, through the year, with laboratory work.

Omitted in 1931-32. MR. MERIGOLD



**32. Advanced Theoretical Chemistry.** Discussion of the principles underlying the transformation of matter and of the conditions for equilibrium in various systems. Applications of the Phase Rule and the determination of the free energy of chemical reactions.

*Three hours*, through the year. Tu. Th. F., 9. MR. MERIGOLD

**35. Seminar.** Staff and graduate students. Reports on research work being carried on in the laboratory and report and discussion of recently published work in related fields.

*Once a week*, through the year. W., 5.

STAFF OF THE DEPARTMENT

## DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, ASSOCIATE PROFESSORS MAXWELL AND  
LUCAS,\* ASSISTANT PROFESSOR SHANKWEILER

A liberal education implies some systematic knowledge of the organization and functions of our economic and social order; to meet this need is the first aim of the department as at present constituted. This cultural objective, however, is not exclusive; that much of the work of the department may have a definite vocational bearing is quite obvious.

The courses in Economics are especially worthy of the attention of students looking forward to a business or professional career. These courses are intended to give the student an understanding of the economic structure of society and of its functioning, and also to train him in the critical analysis of economic problems. They aim primarily to prepare the student for the place of enlightened leadership which the community rightfully expects the college-bred man to assume, and to fit him for grappling with the broader problems that confront the business man. The department recognizes, too, the demand for the development of courses stressing the application of economic principles to business technique with the objective of fitting liberally trained men for capable functioning in the business world; expansion in this direction will continue as rapidly as facilities permit.

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\*Absent on leave, second semester, 1931-32.



Courses numbered 18a, 18b, 117, 24a, 27b, and 29b are designed to give the student an introduction to some of the more important business aspects of economics. They should be of particular value to the student planning to attend a graduate school of business administration as well as to the student who will enter business directly upon leaving college. These courses are given in rotation enabling a student to elect all in his last two years. Attention is also called to Economics 13, 16, and 22 as training for a business career.

The courses in Sociology provide training in the fundamental concepts and methods of the science and lead the student toward the solution of problems faced by every citizen in his economic and social relationships. These courses aim not only to give a knowledge of the science, but also to be broadly cultural in content. Incidentally, they aim to stimulate appreciation by the student of the work of scientists and specialists in many fields, and of their contributions to problems of human welfare. Moreover, the courses are being developed and extended to meet the needs of students in applied fields. Particularly, students of education and social work will find offerings adapted to their interests.

Economics and Sociology are most happily associated, whether as *major* or *minor* subjects, with work in the departments of History and International Relations, Geography, and Psychology. Other combinations are not undesirable. For example, one equipping himself for industrial Chemistry might well choose Economics for his *minor* subject; or, one whose *major* interest lies in the social sciences, particularly in the fields of research into statistical and business problems, will find courses in Mathematics highly desirable.

Economics 11 is a prerequisite to all other courses in Economics, with the possible exception of Economics 14a and 14b, and is required of all *majors* in the department. Sociology 11 is a prerequisite to further work in Sociology. The more advanced courses are alternated according to a plan specified in italics further on in the course announcements. Undergraduates *majoring* or *minoring* in the department are urged to take the introductory courses in their sophomore year.

## GRADUATE WORK

The department regularly offers courses leading to the Master's and Doctor's degrees. Students expecting to enter upon advanced work should have creditably mastered basic courses in the field equivalent at least to the ordinary undergraduate *major*, i.e., twenty-four semester hours; those whose preparation is inadequate should expect to make good the deficiency before proceeding to study for a higher degree.

A sufficient range of courses will be offered in cycles of two or three years so that graduate students may be adequately prepared for candidacy for the doctorate in this department. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work; undergraduate students in courses of the intermediate group will be expected to do work of substantially graduate caliber.

Fellowships, scholarships, and other aids are available to students in the department; also a limited number of assistantships, carrying a modest stipend, are awarded to worthy students.

*The attention of students in Economics and Sociology is directed to closely allied courses offered in the Departments of Geography, History and International Relations, and Psychology.*

## COURSES IN ECONOMICS

## 1. PRIMARILY FOR UNDERGRADUATES

**10a. Social Science Survey.** A survey course, designed to introduce the student to the methods and materials of the social sciences, and to build up a background of understanding for later work in Economics, Sociology, or other social sciences. The course will treat briefly the outstanding features of the earlier stages of economic and social life, the evolution of modern capitalism, and more fully the conspicuous aspects of the present-day industrial world. This course may not be counted as a part of the *major* or *minor* requirement.

A course designed especially for Freshmen; *Sophomores may take this course with reduced credit.*

*Three hours*, first semester. M. W. F., 9.

MR. BRANDENBURG

**11. Principles of Economics.** An introduction to the fundamental economic principles, together with a study of the practical application of these principles in the problems of American life. Open to Sophomores, Juniors, and Seniors; Economics 10 desirable.

Indivisible course.

*Three hours*, through the year. Tu. Th. S., 10. MR. LUCAS

**13. Money, Banking, and the Business Cycle.** The principles of money and banking, with special reference to their functions in the present economic organization of society. History of money and banking in the United States and Western Europe. The Federal Reserve System will be considered in some detail. Foreign exchange, organized speculation in its relation to the money market, and the business cycle are included in the subject matter of the course. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work. Indivisible course.

*Three hours*, through the year. M. W. F., 9. MR. MAXWELL  
To be omitted in 1932-33.

**14a. Economic History of Western Europe.** The development of European industry and commerce since the Industrial Revolution. This course may, with the consent of the instructor, be elected concurrently with Economics 11.

*Three hours*, first semester.

MR. MAXWELL

Omitted in 1931-32.

**14b. Economic History of the United States.** The economic progress of the United States from the Colonial period to the present. Such topics as the following will be discussed; economic life in the colonies; the development of agriculture and manufactures; changes in the forms of transportation; domestic and foreign commerce; tariff policy; banking, currency, and public finance; problems of industrial combination. This course may,

with the consent of the instructor, be elected concurrently with Economics 11.

*Three hours*, second semester.

MR. MAXWELL

Omitted in 1931-32.

**15b. Public Finance.** A study of the principles of public expenditures, revenues, and debts, with particular reference to American conditions. Prerequisite, Economics 11. Graduate students registering in this course may receive credit by doing additional work.

*Three hours*, second semester. M. W. F., 10. MR. MAXWELL

To be omitted in 1932-33.

**16a. Statistics.** Methods of collecting, analyzing, and presenting statistical data with special reference to economic statistics. Text-books, lectures, and problem work. Prerequisite, Economics 11. A laboratory period will be required.

*Three hours*, first semester. M. W. F., 10. MR. MAXWELL

To be omitted in 1932-33.

**117. Principles of Accounting.** The organization and use of financial records, theory of debits and credits, construction and interpretation of the main financial statements, proper treatment of reserves and surplus, accounting for depreciation, handling intangibles, and other special problems. Emphasis is on the use of accounting records as an aid to business management, rather than on the technique of procedure. A two-hour laboratory period is required. Prerequisite, Economics 11.

Indivisible course.

*Three hours*, through the year.

MR. LUCAS

Omitted in 1931-32.

**18a. Business Organization.** This course discusses the evolution and forms of business and industrial organization; the proper organization from the standpoint of management as well as from the standpoint of the public at large; the integration and combination of business units. It serves as an introduction to the problems relating to the financial policies of corporations. The



relation of government to business is also considered. Prerequisite, Economics 11.

*Three hours*, first semester. Tu. Th. S., 9. MR. LUCAS  
To be omitted in 1932-33.

**18b. Business Finance.** This course is virtually a continuation of Economics 18a. It discusses in detail the problem of the formation and capitalization of corporations, promotion, underwriting, receivership, failure and reorganization, and the proper administration of income. Prerequisite, Economics 11 and 18a.

*Three hours*, second semester. Tu. Th. S., 9. MR. LUCAS  
To be omitted in 1932-33.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**22. Labor Problems.** A study of labor organizations; the aspects of labor questions as reflected in labor legislation; the labor of women and children or other special classes; minimum wage; social insurance; employers' associations; the selection and training of workers; labor turn-over; welfare work; shop committees; profit-sharing; and similar questions. Prerequisites, Economics 11 and 14b.

*Three hours*, through the year. M. W. F., 11.

To be omitted in 1932-33. MR. BRANDENBURG

**210b. Economic and Social Reform.** The historical and economic background of reform movements; socialism as a criticism of the system of the classical economists and of existing institutions, as a theory of social progress, and as a program of social reform. Prerequisites, Economics 11 and 14a or 14b.

*Three hours*, second semester. MR. BRANDENBURG

Omitted in 1931-32.

**23b. Recent Monetary and Financial Problems.** This course will deal with important developments occasioned by the War in the monetary, banking and fiscal systems of the principal European countries and the United States. The relationship between these changes and government finance will receive attention, together with recent proposals for monetary reform. Reports and



a thesis will be required. Prerequisites, Economics 11 and other courses prescribed by instructor.

*Three hours*, second semester.

MR. MAXWELL

Omitted in 1931-32.

**24a. Marketing Methods and Policies.** This course acquaints the student with our general system of commodity distribution. It discusses the distributive mechanism, the competitive aspects of marketing such as price policies, brand policies, and unfair competition; market analysis, and demand creation. Recent developments are analyzed. The social point of view is stressed throughout. Each student is required to do a certain amount of individual research work. Prerequisite, Economics 11.

*Three hours*, first semester.

MR. LUCAS

Omitted in 1931-32.

**25b. Problems in Public Finance.** Certain important financial questions, relating particularly to the United States, will be examined in more detail than is possible in Economics 15a. An historical survey of federal finance will be made with stress put upon recent developments. State and municipal finance will receive some attention. Reports and a thesis will be required. Prerequisites, Economics 11 and 15a.

*Three hours*, second semester.

MR. MAXWELL

Omitted in 1931-32.

**27a. International Trade and International Finance.** This course acquaints the student with the nature and theoretical basis of foreign trade. A thorough analysis is made of the principles underlying the international movement of goods. The foreign trade of the United States, its effects on our economic and social life, the channels of trade, methods of ocean transportation, the financing of foreign trade with emphasis on foreign exchange, the international movement of capital, government promotion and interference with trade with special attention to protective tariffs, are some of the more important problems discussed.

Prerequisites, Economics 11 and 13.

*Three hours*, first semester. Tu. Th. S., 11.

MR. LUCAS

26b Problems of Present Day Finance

*Three hours*, second semester - W. 7:30 - 10

Mr. Gifford.

**28. Research in Selected Economic Problems.** The work in this course consists of the first-hand analysis of important problems connected with the production and marketing of goods. Sufficient text-book work and formal classroom discussion is given to furnish the student with the proper background. Most of the work, however, consists of independent research under the direction of the instructor in charge. The problems to be analyzed are chosen on the basis of the qualifications and interests of the student. Limited enrollment; consent of the instructor required.

*Three hours*, through the year. Hours to be arranged.

MR. LUCAS

**29b. Economics of Transportation.** History and present status of rail, water, and highway transport; theories of rate-making; problems of intercorporate relationship, public regulation, government operation, and chief problems of the present. Prerequisite, Economics 11.

*Three hours*, second semester.

MR. LUCAS

Omitted in 1931-32.

### 3. PRIMARILY FOR GRADUATE STUDENTS

**31. International Economics Policies.** National tariff policies or other commercial restrictions with the international problems arising therefrom; national, private, or public establishments for the promotion of foreign trade; banking and credit facilities as factors in foreign trade; commercial treaties; navigation laws and general maritime policies of important commercial nations.

*Two hours*, through the year. M., 7-9. MR. BRANDENBURG

**38a. History of Economic Thought to the End of the 18th Century.** Study will be made of those periods important in the history of economic thought, starting with Greek antiquity. Somewhat less attention will be given to Roman antiquity and to the Middle Ages. In the modern period the contributions of the Mercantilists, the Physiocrats, and Adam Smith will be estimated.

*Three hours* first semester.

MR. MAXWELL

Omitted in 1931-32.

**38b. Modern Economic Thought.** The rise and development of modern schools of economic thought will be traced, starting with the English classical school and proceeding to examine the German historical school, the Austrian school, and the mathematical school. Some attempt will be made to treat recent developments. Attention will be given rather to the history of thought than to analytic criticism of specific doctrines.

*Three hours*, second semester.

MR. MAXWELL

Omitted in 1931-32.

**39. Value and Distribution.** An advanced course in economic theory, involving a critical reading of Smith, Ricardo, J. S. Mill, and representative modern economists. Intended to trace the progress of economic thought since the early part of the nineteenth century and to train the student in critical consideration of economic principles. The course is conducted mainly by discussion in which the students are expected to take an active part. Indivisible course.

*Three hours*, through the year. M. Th., 4-5:30. MR. MAXWELL  
To be omitted in 1932-33.

**311. Seminar in Economics and Sociology.** Round-table meetings are held fortnightly, in the evening, for presentation of the results of investigation by members of the Seminar. As occasion offers, other persons are invited to address the Seminar on matters of general interest. All graduate students in the Department are expected to attend. Seniors *majoring* in Economics and Sociology are urged to do so.

*Second and fourth Thursdays* of each month at 7:30.

THE STAFF OF THE DEPARTMENT

## COURSES IN SOCIOLOGY

NOTE: Attention is called to the cycle of courses in Sociology. Following the introductory course which is prerequisite to all other Sociology courses, are three combinations:

- A. Courses 21a and 22b—to be omitted in 1932-33.
- B. Courses 23a and 24b—to be offered in 1932-33.
- C. Courses 25a and 26b—to be offered in 1932-33.

## 1. PRIMARILY FOR UNDERGRADUATES

(See also Economics 10)

**11. Introduction to Sociology.** This course will afford familiarity with the materials of Sociology, knowledge of the scope of Social Science, and an insight into methods of studying society. It will review the chief concepts of the science, with illustrations from the literature of the subject and the phenomena of contemporary social life. It will offer a brief introduction to social problems, with assigned topics for investigation. Open to Sophomores, Juniors and Seniors. Sociology 11, or its equivalent, is a prerequisite to all other courses in Sociology.

Indivisible course.

*Three hours*, through the year. Tu. Th. S., 11.

MR. SHANKWEILER

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

(See also Economics 210b and Economics 22)

**21a. The Family.** Origin and development of the family as a social institution; its relation to other institutions; changing functions of the family; causative factors underlying the modern disorganization of the home, with proposed measures for its conservation. Special consideration given to statistical studies and case analyses of contemporary marriage relationships. Prerequisite, Sociology 11.

*Three hours*, first semester. Tu. Th. S., 9.

MR. SHANKWEILER

**22b. Urban Sociology.** A study from the social standpoint of the growth, structure, function, and control of modern cities, including a comparison of the physical and social characteristics of urban and rural communities. Individual and group study of the local community will provide laboratory exercises for sociological research. Open to advanced students. Prerequisite, Sociology 11.

*Three hours*, second semester. Tu. Th. S., 9.

MR. SHANKWEILER



**23a. Survey Course in Social Work.** A study of the history and expansion of social work activities in relation to social and economic changes in society, with particular reference to local practices and conditions. Among the problems analyzed are: Changing emphasis in the philosophy and technique of social work, increasing professionalization, the trend toward cooperation and democracy in organization, the contribution of the social sciences to social work, the re-discovery of the social implications of social work, etc. Primarily for those interested in the practical applications of social science. Prerequisite, Sociology 11.

*Three hours, first semester. M., 2-3:30; Tu., 3-4:30.*

MR. SHANKWEILER

**24b. Community Organization.** A study of the structure, functions, and interrelationships of organized groups and institutions; of dynamic social changes in modern community life and resultant conflict of interests; of experiments in community organization aiming at the closer coordination of neighborhood and community activities, for example, the school community center movement, the playground and recreation movement, the public health movement, etc. Evaluation of sociological implications of various programs for securing community solidarity. For advanced students interested in social research.

*Three hours, second semester. M., 2-3:30; Tu., 3-4:30.*

MR. SHANKWEILER

**25a. Poverty and Dependency.** Definition of concepts: poverty, dependency, pauperism; modes of determining the extent of poverty; changing emphases in the interpretation of causative factors, from "single" to "interrelated" causes; history and trend of private and public relief, concluding with a résumé of reform measures designed to promote more equitable economic relationships. Prerequisite, Sociology 11.

*Three hours, first semester.*

MR. SHANKWEILER

Omitted in 1931-32.

**25b. Educational Sociology.** The major content of this course will be: social principles of education; movements for the reconstruction of the curriculum; socialization of administration



and pedagogy; evaluation of education through surveys; social factors in the composition of the teaching force and the pupil population; the place of the school in larger communal relations. Prerequisite, Sociology 11.

*Three hours*, second semester.

MR. SHANKWEILER

Omitted in 1931-32.

**26b. Criminology.** A study of criminal behavior: its extent, nature, causation, treatment. Special attention will be given to an analysis of contemporary penological problems with a view to formulating a policy consistent with the findings of current sociological, psychological, and psychiatric research. Field trips and individual investigations.

Prerequisite, Sociology 11.

*Three hours*, second semester.

MR. SHANKWEILER

Omitted in 1931-32.

### 3. PRIMARILY FOR GRADUATE STUDENTS

(See also Economics 311)

**31. History of Sociology in the United States.** Intended for graduate students of the social sciences, particularly for those *majoring* in Sociology. The major content of this course deals with the development of American social thought, prefaced by a brief résumé of European backgrounds, and concluding with modern trends in Sociological theory. Conference method. Work adapted to individual need. Credit granted on basis of work done.

MR. SHANKWEILER

**32. Sociology Seminar.** Intended for students of graduate standing working on research projects.

Credit granted on basis of work done.

MR. SHANKWEILER

## DEPARTMENT OF ENGLISH

PROFESSOR AMES,\* PROFESSOR DODD, ASSOCIATE PROFESSOR ILLINGWORTH, ASSISTANT PROFESSOR BAKER

Prescribed work in English consists of English 11, required of all Freshmen, and 6 additional semester hours of English literature

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\*Absent on leave, second semester, 1931-32.

or composition, to be completed by the end of the Junior year. A *major* in English consists of twenty-four semester hours, including English 11. A *minor*, of eighteen semester hours, including English 11.

Beginning with the year 1929-30, a course in the Appreciation of the Fine Arts, given by Professor Dodd, is a requirement for all students, to be completed in either the Freshman or the Sophomore year. This course is not counted in fulfillment of the requirement in *English*.

### THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

## COURSES IN ENGLISH

### 1. PRIMARILY FOR UNDERGRADUATES

**11. English Composition.** In the first semester, following a rapid review of rhetoric, the work concentrates on writing original essays. The text is M. J. Curl's *Expository Writing*, Houghton Mifflin Co., 1931 (revised edition). In the second semester, the study of selected literature provides material for further theme writing.

Required of Freshmen.

*Three hours*, through the year. T. Th. S., 11; and T. Th. S., 12. MR. BAKER

**12a. Public Speaking.** A course in the composition and delivery of speeches and practice in impromptu speaking. The student is taught to breathe correctly; exercises are given to overcome speech defects; relation of speaker to audience; posture, movement, gesture, pronunciation and enunciation, methods of preparing a speech, and vocabulary building. The aim of the

course is to train the student to think logically and to speak simply and effectively when on his feet.

*Three hours, first semester.*

Omitted in 1931-32.

**13a. Shakespeare.** A general survey of Shakespeare's works, including the reading and class discussion of twenty plays. Prerequisite, English 11.

*Three hours, first semester. Tu. Th. S., 10. MR. AMES*

**15a. A Survey of English Literature.** A course in English literature from its beginning to the end of the seventeenth century. Prerequisite, English 11.

*Three hours, first semester. MR. AMES*

Omitted in 1931-32.

**16b. English Composition.** Weekly themes in exposition, argumentation and narration. The student is allowed to specialize in one or more of these forms. Outside reading and class criticism. Open to students who have attained high standing in English 11.

*Three hours, second semester. M. W. F., 10.*

MR. ILLINGWORTH

**17a. The Romantic Movement in English Literature.** Prerequisite, English 11.

*Three hours, first semester. M. W. F., 10. MR. AMES*

**18a. The Bible.** This course aims to stimulate an intelligent appreciation of the Bible as literature. Prerequisite, English 11.

*Three hours, first semester. MR. AMES*

Omitted in 1931-32.

**19b. English Literature of the Eighteenth Century.**

Prerequisite, English 11.

*Three hours, second semester. MR. AMES*

Omitted in 1931-32.

**110b. Nineteenth Century Poetry.** A study of English poetry from Tennyson to Kipling. Prerequisite, English 11.

*Three hours, second semester. MR. AMES*

Omitted in 1931-32.

**111. American Literature.** Readings in American Literature, from the Colonial period to the present day. The course may be elected for the year or for the first semester only. Open to Freshmen with the approval of the instructor.

*Three hours*, through the year. Tu. Th. S., 12.

MR. AMES AND MR. BAKER

**112. The Modern Essay.** A study of English and American essays from 1820 to the present day, with appropriate collateral reading in fiction. The course may be elected for the year or for the first semester only. Prerequisite, English 11.

*Three hours*, through the year.

MR. AMES

Omitted in 1931-32.

**113a. Modern English Drama.** A study of contemporary English dramatists.

Open to Freshmen.

*Three hours*, first semester.

MR. DODD

Omitted in 1931-32.

**114b. Elizabethan and Restoration Drama.** A study of the plays written by Shakespeare's distinguished contemporaries and his successors of the Restoration.

*Three hours*, second semester. Tu. Th. S., 9.

MR. DODD

**121a. Biography and Letters.** A study of the biography, autobiography and correspondence of distinguished authors, together with painters and sculptors, from the eighteenth century to the present day. This course is open only to upper classmen who are proficient in English.

*Three hours*, first semester. M. W. F., 9.

MR. DODD

To be omitted in 1932-33.

**122a. Modern Poetry.** A study, in representative contemporary poets, of the new tendencies in verse. For those wishing it, opportunity is afforded for original verse composition.

Open only to upper classmen who are proficient in English.

*Three hours*, first semester. M. W. F., 9.

MR. DODD

Omitted in 1931-32. To be offered in 1932-33.

**123a. The 19th Century Novel in England.** A study of the important novelists from Scott to Hardy. Open to Freshmen with the approval of the instructor.

*Three hours*, first semester.

MR. BAKER

Omitted in 1931-32.

**124a. American Drama.** A study of the American drama from colonial times to the present day.

Open to Freshmen.

*Three hours*, first semester.

MR. DODD

Omitted in 1931-32.

**125a. The Short Story.** A study of representative short stories in English and American literature.

Open to Freshmen.

*Three hours*, first semester. T. Th. S., 9.

MR. DODD

To be omitted in 1932-33.

**126b. Modern Continental Drama.** Contemporary drama: Norway, Russia, Germany, Austria, France, Spain and Italy. A companion course to Modern English Drama.

*Three hours*, second semester.

MR. DODD

Omitted in 1931-32.

**130a. The Modern Novel in England.** A successive course to the Nineteenth Century Novel. Ten representative novels, beginning with Samuel Butler, are read.

*Three hours*, first semester.

MR. BAKER

Omitted in 1931-32.

**131a. The Rise and Development of the English Novel.** A study of the novel from pre-Elizabethan origins to Walter Scott.

*Three hours*, first semester. M., 8; W. F., 12. MR. BAKER

A new course, to be offered in 1932-33.

**140. Appreciation of Literature.** A thoroughly practical course based upon the belief that intelligent understanding and proper interpretation of the thoughts of another depend largely upon the ability to read, express, paraphrase, and discuss the chosen selection. Literary interpretation and intensive analysis of



prose, poetry, and dramatic forms, designed to increase the accuracy of silent reading and the beauty of oral reading.

*Three hours, through the year.* M. W. F., 9.

MR. ILLINGWORTH

**141a. Playwriting.** Exercises in dramatic composition and playwriting with laboratory working in rehearsal of such plays written by students as may be deemed of sufficient merit to warrant production.

*Three hours, first semester.* M. W. F., 10.

MR. ILLINGWORTH

## FINE ARTS

**1b. Fine Arts.** A course in the appreciation of painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips. This course is not counted in fulfillment of the requirement in *English*.

*Three hours, second semester.* M. W. F., 9.

MR. DODD

## DEPARTMENT OF GEOGRAPHY

A complete statement of the aims and the scope of the courses in Geography and the related subjects, Physiography, Meteorology and Climatology, will be found in the announcement of the Graduate School of Geography, page 69.

## DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

### 1. PRIMARILY FOR UNDERGRADUATES

**12. General Geology.** First semester. A study of the rocks which compose the earth's surface, the physical processes which act upon them, the internal forces which deform them, and the land forms which result. Many of the practical applications are indicated. Except that the study of weather and climate is omitted, this course may be taken as an introductory course in Physiography.

Second semester. The geological history of the earth, including

the geography of the past and the evolution of life as interpreted through the study of rocks and fossils.

Three recitations and one laboratory period weekly. Occasional local field trips are taken. Attendance on one out-of-town field trip lasting two days or more is required.

Divisible only in special cases with the approval of the Department.

*Three hours*, through the year. M. W. F., 8; Th., 2.

MR. LITTLE

*The following courses are offered occasionally on special request of four or more students.*

**121a. Crystallography, Mineralogy, and Blowpipe Analysis.** A study of the geometrical forms assumed by minerals which are of assistance in their identification, a discussion of the physical properties of minerals which allow of their recognition, and the performance of simple chemical reactions, largely with dry reagents, which may supplement the preceding tests. Two class meetings and one laboratory period weekly.

*Three hours*, first semester.

MR. LITTLE

Omitted in 1931-32.

**122b. Economic Geology.** A study of the origin of the deposits of useful minerals and a discussion of the world's more important occurrences. Special attention is given to the distribution and control among the various countries of non-metallic deposits such as coal, petroleum and phosphates; and deposits of metal such as iron, copper and gold. Elementary Chemistry and Geology are desirable. Two class meetings and one laboratory period weekly.

*Three hours*, second semester.

MR. LITTLE

Omitted in 1931-32.

## DEPARTMENT OF GERMAN

PROFESSOR RANDOLPH, ASSISTANT PROFESSOR BOSSHARD

The Department of German provides the necessary courses for those who wish to use this language in meeting the general requirement in foreign language, and also provides opportunity for

those who wish to take this language as a *major* subject. A *major* in German consists of at least twenty-four semester hours selected from the courses announced here. The courses beyond the second year level are usually offered alternately in successive years.

German 11 offers to those who have not previously studied German an opportunity to begin that language in college. German 12 provides a means of meeting the requirements of a course of second year college grade in foreign language. A full year course or two semester courses with numbers above 12 should be taken by those who plan to offer German in fulfillment of the requirement of at least three years' credit in some foreign language.

## COURSES IN GERMAN

### 1. PRIMARILY FOR UNDERGRADUATES

**11. Elementary German.** Drill in pronunciation and grammar; composition; reading of easy prose.

Indivisible course.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 8 and 9.

MR. BOSSHARD

**12. Second Year German.** Review of grammar, with some oral or written translation from English into German; the reading of several easy pieces of modern prose. The course is a continuation of German 11.

Open to Freshmen.

*Three hours*, through the year. T. Th. S., 9 and 12.

MR. RANDOLPH

**13. Advanced Reading and Composition.** The prime object of the course is to develop further the ability to read with accuracy and ease. Two meetings a week are devoted to reading; the texts employed are not especially difficult, but the assignments are of considerable length. The works read are varied from year to year. The third meeting in the week is devoted to German

composition. German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 11.

MR. RANDOLPH

#### 14. Introduction to the Study of German Literature.

Particular attention is paid to the writers of the classical period; such texts are read as Lessing's *Minna von Barnhelm* and *Emilia Galotti*, Schiller's *Jungfrau von Orleans* and *Wilhelm Tell*, and Goethe's *Egmont* and *Hermann und Dorothea*. Lectures treat the history of German literature in outline from the earliest times down to the end of the eighteenth century, and deal more fully with the lives, writings and influence of the great classicists whose works are studied. German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

*Three hours*, through the year.

MR. RANDOLPH

Omitted in 1931-32.

#### 16. Rapid Reading and Composition; Scientific German.

A course corresponding to German 13, and embodying the course in Scientific German formerly given separately. The chief aim of the course is to develop facility in reading.

For men not primarily interested in literature who desire to acquire skill in using German in their work in other fields.

*Three hours*, through the year.

MR. BOSSHARD

Omitted in 1931-32.

**17b. Grillparzer and Hebbel.** German literature in the first half of the nineteenth century, with particular attention to the drama. The aims and methods of the course are similar to those of German 14. German 12 or its equivalent is a prerequisite for this course.

Open to Freshmen.

*Three hours*, through the year.

MR. RANDOLPH

Omitted in 1931-32.

**18. Practice in Speaking and Writing German.** The course takes up through the medium of suitable texts a variety of topics

designed to acquaint the students with essential facts about Germany and the German people. The course is conducted in German; it is open to students who have had three years of work in the language, or otherwise satisfy the instructor of their fitness to take it.

*Three hours*, through the year. M. W. F., 11. MR. BOSSHARD

**19. The German Novel.** Lectures on the history and nature of the novel; the reading of a few modern novels in class; collateral reading and reports. In the beginning the lectures and reports are given in English, but in the second half year the course is conducted in German.

*Three hours*, through the year.

MR. BOSSHARD

Omitted in 1931-32.

**191. Contemporary German Literature.** Lectures, interpretations, reading in class, collateral reading and reports. In the beginning the course is conducted in English, but in the second semester in German.

*Three hours*, through the year.

MR. BOSSHARD

Omitted in 1931-32.

## DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

PROFESSOR BLAKESLEE, ASSOCIATE PROFESSOR LEE,  
ASSOCIATE PROFESSOR JORDAN, MR. BILLINGTON,  
VISITING PROFESSOR HEDGES (1931-32).

### UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give in its several courses a broad knowledge of the more significant aspects of the growth of the leading countries of the world. This includes the study not only of the important facts, but more especially of the processes of development in government, diplomacy, society, business, religion, science, and education. The courses are not limited to a consideration of Europe and the United States, but include the progress and present-day conditions of the leading countries of South America, Asia, and Africa. While the work is designed primarily to give a cultural knowledge



of general world affairs, many of the courses are of especial value to those who are preparing to teach, or to enter the field of law, theology, social service, or government.

Course 11, primarily for Freshmen, is open to members of all classes; courses 15, 16, 17 and 18 are open to Sophomores, Juniors and Seniors, although History 11 or its equivalent will normally be required as a prerequisite for courses 15, 16 and 18.

### GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of International Relations. Without neglecting investigation in the economic, political, and social life of preceding centuries, it makes an especial study of the problems and the difficulties constantly arising in the international relations and diplomacy of the family of states. The field includes not only the United States and the nations of Europe, but also the newer and rapidly developing states of Asia, Latin America, and Africa.

#### FELLOWSHIPS IN HISTORY AND INTERNATIONAL RELATIONS

A Fellowship in American History, known as the American Antiquarian Society Fellowship, has been established by members of the American Antiquarian Society. It has an annual value of three hundred dollars in addition to remission of tuition fees.

The subject of research chosen by the Fellow for his Doctor's dissertation should be selected within the field of American History before 1880, the period in which the Library of the American Antiquarian Society, located in Worcester, is of greatest assistance to historical investigators. In addition to the society's valuable manuscripts of the Colonial period, it has an unequalled collection of books printed in America in the early period and of American newspapers from 1660 to 1860.

Regular University Fellowships and Scholarships are also available for students in this department.

#### THE DOCTORATE

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for their

doctorate will be enabled to secure a full program each year. Those taking History as a *major* are advised to elect their *minor* either in Geography or in Economics.

A feature of the method of instruction in the department is the frequent informal conferences between instructor and student, and the Seminar method in many of the courses.

*The following courses in related departments are closely connected with work in History, and may advantageously be taken to supplement major work in the Department of History and International Relations.*

#### DEPARTMENT OF GEOGRAPHY

- 181b. Geography of North America.
- 185b. Geography of Europe.
- 311b. Physiographic Regions of North America.
- 319b. Physiographic Regions of the Eastern Hemisphere.
- 362b. Geographic Aspects of United States Foreign Trade.
- 37a. General Principles of Anthropogeography.
- 375a. Geography of Europe.
- 383a. Caribbean America.
- 384b. South America.

#### DEPARTMENT OF ECONOMICS AND SOCIOLOGY

- 14a. Economic History of Western Europe.
- 14b. Economic History of the United States.
- 31. International Economic Policies.

#### DEPARTMENT OF PSYCHOLOGY

- 311. Social Psychology.

### COURSES IN HISTORY AND INTERNATIONAL RELATIONS

#### 1. PRIMARILY FOR UNDERGRADUATES

11. **Introduction to the History of Europe.** The course covers the period from the fall of Rome to the present time, and serves as a general introduction to further historical study. The

aim is to give a clear and accurate picture of the life and of the great movements of the medieval and early modern period.

Indivisible course.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 10. MR. LEE

**15. History of England.** A general course. Lectures, textbooks, collateral reading and quizzes. The purpose is to discuss the life of Englishmen at home, in relation with the Continent, and in the Empire.

*Three hours*, through the year. M. W. F., 10. MR. JORDAN

**16b. Europe Since 1815.** A general survey of the history of continental Europe from the end of the Napoleonic period to the present time. Attention will be given to the development of democracy and nationalism, the growth of modern imperialism and the partition of Africa, as well as the industrial revolution and the consequent spread of Socialism. Emphasis will be laid on the causes and course of the World War and on the present situation in Europe. History 11 or its equivalent is desirable as a prerequisite.

*Three hours*, second semester. MR. LEE

Omitted in 1931-32.

**17. American History Since 1783.** After a brief survey of the colonial beginnings of American history and the American Revolution, the course will treat carefully the period since 1783. Emphasis will be placed upon the newer points of view in the study and writing of American history.

Divisible only in special cases with the approval of the Department.

*Three hours*, through the year. T. Th. S., 9. MR. BILLINGTON

**18. A Survey of International Relations.** The course will give a general survey of the whole field of international relations and furnish a foundation for further and more specialized work. It will consider the chief factors involved in this study, such as race, nationality, historical tradition, population, boundaries, econ-

omic resources, and imperialism; and present an outline of the important concrete problems of the world at the present time.

*Three hours, through the year. M. W. F., 11.*

MR. BLAKESLEE

**110a. Principles of Political Science and Progress of Political Thought.** An introductory review of the subject in its history and philosophy with special reference to theories of the nation and the state—of government, national, imperial, and international—of sovereignty, federalism, and pluralism. Illustrated from contemporary conditions, but concerned mainly with the past. Primarily for undergraduates with adequate prerequisites, but also open to graduate students.

*Three hours, first semester.*

Omitted in 1931-32.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**21b. Selected Topics in Modern Diplomatic History.** Lectures and research work in various fields and world diplomacy. Among the topics which may be included are Anglo-French relations, the Near East, the diplomatic history of the Mediterranean basin, the partition of Africa, and Anglo-Russian relations.

*Two hours, second semester.*

Omitted in 1931-32.

**22a. The Pacific and the Far East.** The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific. Government and politics and econ-

**Hist.221b - American Relations with the Near and Middle East.** A study of the total impact of the United States upon the countries of the Near and Middle East, especially those formerly comprised in the Ottoman Empire. American religious and philanthropic activities and commercial operations are emphasized no less than the diplomatic relations between the United States and the countries of the region.

3 hours, 2nd semester

Mr. Edgar Turlington





omic resources, and imperialism; and present an outline of the important concrete problems of the world at the present time.

*Three hours, through the year.* M. W. F., 11.

MR. BLAKESLEE

**110a. Principles of Political Science and Progress of Political Thought.** An introductory review of the subject in its history and philosophy with special reference to theories of the nation and the state—of government, national, imperial, and international—of sovereignty, federalism, and pluralism. Illustrated from contemporary conditions, but concerned mainly with the past. Primarily for undergraduates with adequate prerequisites, but also open to graduate students.

*Three hours, first semester.*

Omitted in 1931-32.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**21b. Selected Topics in Modern Diplomatic History.** Lectures and research work in various fields and world diplomacy. Among the topics which may be included are Anglo-French relations, the Near East, the diplomatic history of the Mediterranean basin, the partition of Africa, and Anglo-Russian relations.

*Two hours, second semester.*

Omitted in 1931-32.

**22a. The Pacific and the Far East.** The course deals especially with China, Japan, Russia in Asia, and the islands of the Pacific, stressing foreign affairs, government and politics, and economic, industrial and commercial conditions. A careful study is made of the relations, diplomatic and commercial, with the United States.

*Three hours, <sup>first semester</sup> through the year.* M. W. F., 10.

MR. BLAKESLEE

**23a. Central Europe in the 19th Century.** This course is concerned chiefly with Germany and Austria-Hungary. After a few introductory lectures the problem of German unity, German supremacy after 1870, the economic development of the German Empire, and the national movements as well as the foreign policy

of Austria-Hungary are taken up. History 16b or its equivalent is prerequisite.

*Three hours*, first semester.

MR. LEE

Omitted in 1931-32.

**24. Modern France.** The course, beginning with the period of the Renaissance, surveys with greater detail than is possible in History 11 the history of France to the present time. In the first semester special emphasis is placed upon the development of French character and culture in the sixteenth and seventeenth centuries, the causes of the Revolution, and the developments of the Revolutionary and Napoleonic era. In the second semester all aspects of French history in the nineteenth and twentieth centuries are equally studied. History 11, or its equivalent, is prerequisite.

*Three hours*, through the year. Tu. Th. S., 11.

MR. LEE

To be omitted in 1932-33.

**25a. British India.** A survey of European rivalry in India, the work of the East India Company, the development of administration by the crown, and the recent developments toward self-government. Economic relations with Europe, military history, the expansion of Indian relations with other parts of the world, immigration, and religious and revolutionary movements are among the topics considered.

*Two hours*, first semester.

Omitted in 1931-32.

**27. Latin America.** A survey of the history of the various Latin American countries is followed by a consideration of international diplomacy, political problems, systems of government, race questions, economic and industrial conditions. Emphasis is placed upon the relations, both in trade and diplomacy, with the United States. Present problems are stressed, such as the Monroe Doctrine, Pan-Americanism, the Mexican issue, and the American administration of Haiti and Santo Domingo.

*Three hours*, through the year.

MR. BLAKESLEE

Omitted in 1931-32.

## 28. The British Empire Since the American Revolution.

Particular attention will be devoted to home conditions back of imperial expansion and changes of policy. The second semester will deal mainly with the last quarter century.

*Three hours*, through the year. M. W. F., 9.

MR. JORDAN

**29a. Russia.** The aim of this course is to present Russian internal development from the origin of the Kievan state to the present time. Special emphasis is placed on the revolutionary movements of the 19th century, the revolution of 1917 and the Soviet régime since that date. History 11 and 16b or their equivalents are prerequisite.

*Three hours*, first semester.

MR. LEE

Omitted in 1931-32.

## 201. Social and Intellectual History of the United States.

This course traces the evolution of American life from the eve of the Revolution to the present day, with emphasis upon the social customs, economic influences, racial contributions, religious beliefs, and humanitarian movements, as well as the intellectual, artistic and scientific interests of the people.

*Three hours*, through the year. T. Th. S., 10. MR. BILLINGTON

**211a. The Historical Geography of the United States.** The course will consist of a study of the geographic factors in the development of the social, economic, political and institutional life of the American people from colonial times to the present. History 17 or its equivalent will normally be a prerequisite.

*Three hours*, first semester.

Omitted in 1931-32.

**213. Constitutional History of the United States.** In this course the Constitution will be treated as a growing organism, responsive to the changing political, social and economic conditions of the country. The course will begin with a discussion of the origins of the American Constitution. There will be careful discussion of the important cases which established basic principles of constitutional law. Important constitutional developments will be correlated with the changes in American life and society which called them into being.

Open to advanced undergraduates and graduates who have had a thorough college course in general American history.

*Three hours* through the year.

Omitted in 1931-32.

**241a. The United States Since 1865.** A synthesis of the political, social and economic forces in the development of the United States since the Civil War. The course will be developed by topics and emphasis will be placed upon interpretation rather than narration. A reasonable familiarity with the period will be assumed. Prerequisite: History 17 or its equivalent.

*Three hours*, first semester.

Omitted in 1931-32.

**242b. American Colonial History to 1776.** A study of the European background of American history, the expansion of European peoples into the New World, the various European Colonial systems, the struggle for Colonial supremacy in North America and the background and causes of the American Revolution. Prerequisite: History 17 or its equivalent.

*Three hours*, second semester.

Omitted in 1931-32.

**250a. Comparative Post-War Constitutions.** An application in detail of the analysis and argument presented in History 110 to post-war constitutional changes with an examination of the political forces operating in Europe and of the political forms they are producing—with special reference to two examples of constitutions in evolution, Great Britain and Germany; and to two in revolution, the Soviet Union and Italian Corporative State. The Soviet system will only be dealt with comparatively and in correlation to other systems.

*Three hours*, first semester.

Omitted in 1931-32.

### 3. PRIMARILY FOR GRADUATE STUDENTS

**31. International Law.** A general course adapted for advanced students who will do a large amount of independent reading. The principles of international law are presented and then



illustrated by recent and pending international controversies of a legal nature. Lectures, textbooks, class discussions, and the study of the important cases in standard collections.

*Two hours*, through the year. M. W., 3. MR. BLAKESLEE

### **32. Recent International Relations of the United States.**

A lecture and research course covering the period from the Civil War to the present, with emphasis upon American foreign policies during and since the World War. Especial consideration is given to the history and present status of American relations with Great Britain, Germany and France; the Monroe Doctrine, the Caribbean and the Open Door policies; and the rival doctrines of Isolation and International Co-operation.

*Two hours*, through the year. M. W., 3. MR. BLAKESLEE  
Omitted in 1931-32.

**322. Selected Topics in Recent British History.** Aspects of the period since 1815 will be dealt with but the ground covered will change somewhat from year to year.

*Two hours*, through the year. M. W., 4. MR. JORDAN

**331. European International Relations Since 1870.** A study of the diplomatic history of Europe from the Congress of Berlin to the Peace of Versailles on the basis of the abundant source material recently published. Bismarck's system of alliances and the hegemony of Germany, the development of the Eastern question and the estrangement of Austria and Russia, the Franco-Russian Alliance, the growing rivalry of Germany and England, the Entente Cordiale and the diplomatic aspect of the World War are all studied.

*Two hours*, through the year. Th. 3-5. MR. LEE

**332a. Historical Bibliography and Criticism.** A study in the methods of historical research and writing. Introductory lectures on the nature and aims of history and examination of the methods in criticizing and interpreting documents. Practice in synthesizing material and a survey of the various schools of historical writing from the time of Herodotus to the present day.

*Two hours*, first semester. MR. LEE  
Omitted in 1931-32.



**333a. Topics in the Recent and Contemporary History of Continental Europe.** The course will consist chiefly of research by the individual student in problems confronting the European countries at the present day. Such questions as Fascism in Italy, the nationalist problems in the Succession States of the Austrian Empire, the whole organization of the Danube Basin, Republicanism and Democracy in Germany, Bolshevism, and the nationalist movement in Turkey will be taken up as well as some of the more strictly continental international problems, such as reparations and territorial questions.

*Two hours, first semester.*

MR. LEE

Omitted in 1931-32.

**342. The Influence of Westward Expansion in American Development.** The westward movement from colonial times to the passing of the frontier will be discussed in detail. The influence of westward expansion in moulding American character and shaping the peculiar course of American history in the 19th century; the problems arising from the colonization of the west and the reaction of these problems upon national development will be considered. The adjustments made necessary by the passing of the frontier will also be emphasized.

*Two hours, through the year. F., 4-6.*

MR. HEDGES

**345a. The Relationship between Europe and Asia and the Revolutionized Regions of the Near and Middle East.** A review of the causes of the collapse of the Ottoman Empire and Islamic State—of the conditions thereby created—and of the consequences that may be expected—with special reference to Turkey, Persia, Afghanistan, India, Arabia, Syria, Palestine, Egypt and North Africa.

*Two hours, first semester.*

Omitted in 1931-32.

**351. Research in the International Relations of the United States.**

MR. BLAKESLEE

**352. Research in the International Relations of the Pacific and the Far East.**

MR. BLAKESLEE

353. Research in the History and International Relations of the British Empire. MR. JORDAN

354. Research in the History and International Relations of Continental Europe. MR. LEE

355. Research in the History of the United States. MR. HEDGES

36. Seminar. The students in the Department of History and International Relations meet one evening a week for the study of particular topics in international relations, the consideration of the results of investigation carried on in the Department, and for the review of book and magazine material of especial value. Each member is expected to present reports which then form the basis for general discussion.

*Weekly*, through the year. Tu., 7.

MESSRS. BLAKESLEE, LEE, JORDAN, AND BILLINGTON

## DEPARTMENT OF MATHEMATICS

PROFESSOR WILLIAMS, ASSOCIATE PROFESSOR MELVILLE

The undergraduate courses are designed to furnish a practical knowledge of fundamental methods of Mathematics that will be useful in the affairs of life, in business, and in the pursuit of the sciences as well as to prepare students for more advanced study in Mathematics.

A *major* in Mathematics consists of twenty-four semester hours, including courses 11, 12, 13 and 14; a *minor* consists of eighteen semester hours, including course 12.

Mathematics 10 or 11 is required of all students who expect to elect a *major* in Division A.

### MATERIAL FACILITIES

The Library is provided with the more important text-books, treatises, and memoirs on the various branches of Mathematics, as well as the principal journals and transactions of learned societies that are devoted to any considerable extent to Mathematics. The Department possesses a good collection of models in addi-

tion to an adequate instrumental equipment for the work in applied mathematics.

## COURSES IN MATHEMATICS

### 1. PRIMARILY FOR UNDERGRADUATES

**10. Elementary Course.** For students who enter with two or more units of Mathematics. Students who are well prepared for college mathematics are advised to register for Mathematics 11 which prepares directly for more advanced courses. Mathematics 10, on the other hand, aims to compensate for deficiencies in preparatory training, to develop an ability to think in mathematical terms and to give a training in trigonometry and elementary analytical geometry which will be useful in other fields of study. Students who complete this course with a satisfactory record may enter Mathematics 11 at the beginning of the second semester of the following year.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 8.

MR. MELVILLE

**11. Introductory Course.** For students with *major* or *minor* in Division A. Elements of plane Analytic Geometry, including the straight line; plane Trigonometry; elementary theory of equations including Horner's method and De Moivre's Theorem for complex numbers; elements of determinants; and elements of differential and integral calculus. "Unified" course.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 9.

MR. WILLIAMS

**12. Calculus and Analytic Geometry.** Differential and integral calculus and Analytic Geometry, a continuation of course 11.

*Three hours*, through the year. M. W. F., 11.

MR. WILLIAMS

**13. Calculus and Analytic Geometry, Plane Curves and Three Dimensions.** A continuation of course 12 with applications to solutions of problems.

*Three hours*, through the year. Tu. Th. S., 9.

212. Statistics (Math. Foundation)

*Three hours*, through the year.

MR. WILLIAMS

Mr. Williams.

**14. Differential Equations.***Three hours*, through the year.

MR. WILLIAMS

Omitted in 1931-32

**15. Vector Analysis, and Various Topics.***Three hours*, through the year.

MR. WILLIAMS

Omitted in 1931-32

**19a. Astronomy.** Chiefly descriptive, the object being to make students acquainted with the main features of the heavens, celestial phenomena and laws governing them, and the most important theories that have been devised to explain them.

Alternates with course 110.

Open to Freshmen.

*Three hours*, first semester. To be arranged. MR. WILLIAMS

Omitted in 1931-32

**110b. Elementary Surveying.** Fundamental principles; field work with transit, level, sextant, compass, and chain; map making and map reading.

Alternates with course 19.

Open to Freshmen who have had trigonometry.

*Three hours*, second semester.

MR. WILLIAMS

Omitted in 1931-32.

## DEPARTMENT OF PHYSICS\*

PROFESSOR GODDARD,\*\* ASSOCIATE PROFESSOR ROOPE,  
MR. ERICKSON.

The aim of the undergraduate work of this department is to give to students a knowledge of the principles which are at the basis of modern applications of science to human affairs. It is deemed equally desirable to impart a knowledge of the methods and results of modern physics which are influencing so profoundly our fundamental concepts and without which no one may hope to be considered liberally educated. The Department aims also

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\*Beginning September 1931, the Department of Physics is authorized to accept students intending to proceed to the degree of Doctor of Philosophy. Actual enrollment of such students will be deferred until Professor Goddard's return to active work in the department.

\*\*Absent on leave 1930—.

to fit students in the minimum of time with professional preparations for Chemistry, Meteorology and allied sciences, Medicine, Engineering and Science teaching, as well as for professional or graduate work in Physics.

The Department will be glad to discuss, with those desiring to follow Physics as a profession, the opportunities in teaching and in industrial laboratories, and to arrange programs of courses best suited to individual requirements.

For students majoring in Physics, the following sequence of courses is recommended:

Course	Prerequisites		Prerequisites Mathematics
	Year	Physics	
11	First	None	None
14	Second	11	None
15	Second	11	12
13	Third	11	11
22 or 23	Third	11	12
23 or 22	Fourth	11	12
28	Fourth	11	12

Sequences recommended for students not majoring in Physics are as follows:

For students with Physics as a minor: Courses 11, 14, and one or more of 15, 17, 22, 23, 28.

For pre-medical students: Course 11.

For students with a major in Chemistry: Courses 11, 14 and 15, 23 or 28.

For students with a major in Biology: Courses 11, 14 and 28.

For students with a major in Meteorology and Climatology: Courses 11, 14, and 15.

## GRADUATE WORK

Work leading to the degree of Doctor of Philosophy in Physics will be offered upon the return of Professor Goddard from leave of absence for research work.

The Department is prepared to give the degree of Master of Arts for those planning to teach Physics, or to undertake research work in industrial and government laboratories, or to take a more advanced degree in Physics. For this work, emphasis is placed not only upon Mathematical Physics but also upon the comple-



tion of an original research problem for which work the laboratories and library provide unusual facilities.

Graduate students in Physics whose minor is in Mathematics may arrange for courses with the Department of Mathematics, or a special course in applied Mathematics may be taken under the Physics Department, based on Mellor's *Higher Mathematics for Students of Chemistry and Physics*.

A course in Meteorology through the year is given in the Department of Geography. More advanced work in physics of the air may be arranged through the co-operation of the departments of Physics and Geography.

## COURSES IN PHYSICS

### 1. PRIMARILY FOR UNDERGRADUATES

**11. General Physics.** This course gives a general knowledge of the principles of Physics, as applied in industry and in the household, and also of the newer developments of Physics, including the elementary theory of radio, Roentgen rays, and the electrical basis of matter. It is desirable for all students intending to specialize in Chemistry, Biology, Mathematics, Law, or Medicine, and is the natural starting point for those desiring to do further work in Physics. It may also be taken as a general science course by those not majoring in science. During the first semester, the work covers mechanics and heat, and during the second semester, electricity and magnetism, wave motion, sound, and light. The textbook is Duff's *General Physics*. Mathematics 11 is advised, but not required. Since this course consists of three lectures and recitations, and one laboratory period per week, it is generally accepted by medical schools as fulfilling the requirement of eight semester hours in Physics.

Indivisible course.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10; W. or Th. 2.

MR. ROOPE AND MR. ERICKSON

**13. History of Physics.** A conference course on the history of the various branches of Physics. This course is not accepted as a major or minor credit course. Prerequisite: Physics 11.

*Three hours*, through the year.

MR. ROOPE

Omitted in 1931-32

**14. Mechanical and Electrical Measurements.** During the first semester this course consists of electrical measurements, including inductance, capacity, and conduction, by various methods, together with advanced problems in optics. In the second semester the course consists of laboratory exercises in dynamics, including kinetics of translation, angular momentum, the gyroscope, and elastic properties of materials, followed by advanced problems in heat.

*Three hours, through the year. Tu. W. F., 2.*

MR. ERICKSON

**15a. Optics.** Geometrical and physical optics including work in practical photography. The textbook is Houstoun, *A Treatise on Light*. Prerequisite, Physics 11.

*Three hours, first semester. M. W. F., 9.*

MR. ERICKSON

**15b. Thermodynamics.** This course includes a study of the thermal properties of the solid, liquid, and gaseous states, the laws of thermodynamics, and the theory of heat engines. Prerequisite, Physics 11.

*Three hours, second semester. M. W. F., 9.*

MR. ROOPE OR MR. ERICKSON

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**22. Theoretical Mechanics.** This course is a systematic presentation of theory by lectures and recitations together with the solution of problems. The work includes statics, kinematics and dynamics of translation and rotation of bodies, mechanical oscillations, and dimensional equations. The text-book is Crew and Smith, *Mechanics for Students of Physics and Engineering*. Mathematics 12 must be taken before or with this course.

*Three hours, through the year. M. W. F., 8.*

MR. ROOPE

**23. Theory of Electricity and Magnetism.** This course treats the general principles of dynamo and motor design, high-frequency phenomena as involved in radio, radio-activity, and the electron theory of matter. The course is of particular importance to those intending to specialize in Physics, Mathematics, or Engineering. The prerequisites are Physics 11 and Mathematics 11; Mathematics 12 must be taken before or with this course. A

knowledge of differential equations is advised. The text-book is Starling's *Electricity and Magnetism*.

*Three hours*, through the year.

MR. ROOPE

Omitted in 1931-32

**27. Preliminary Mathematical Physics.** This course involves reading on specially assigned topics. The object is to provide a comprehensive background for advanced work in physics. Open only to undergraduate majors in physics of high standing.

*Three hours*, through the year.

MR. ROOPE

Omitted in 1931-32.

**28a. Laboratory Methods.** A course in the methods of preparing and presenting the results of experiments, involving precision of measurement, method of least squares, mean value, logarithmic plotting, derivation of formulae from experimental data, mechanical integration and differentiation, vector analysis, and the preparation by each student of a report on at least one assigned topic that involves reference tables and literature. This course is recommended for students specializing in any of the sciences which involve laboratory work. Prerequisite, Physics 11.

*Three hours*, first semester. M. W. F., 9.

MR. ROOPE

### 3. PRIMARILY FOR GRADUATE STUDENTS

**34. Advanced Mechanics.** This course includes vector analysis the equations of Lagrange and Hamilton, the methods of Hamilton and Jacoby, and Newtonian and logarithmic potential functions together with a discussion of applications to various branches of Physics. The motion of rigid bodies the theory of moving axes and the theory and application of the gyroscope are also treated.

*Three hours*, through the year. Tu. Th. S. 10.

MR. ROOPE

**35. Advanced Electricity and Magnetism.** The theory of electricity and magnetism is treated from the classical and the modern viewpoints, and includes the theory of the electro-magnetic field, generalized impedance, electric waves, and recent developments.

*Three hours*, through the year. Tu. Th. S., 11.

MR. ROOPE

**36. The Partial Differential Equations of Mathematical**

**Physics.** Included in this course are vector analysis, the methods of Cauchy and Fourier, developments in series, the methods of Green and Riemann-Volterra, normal functions, and integral equations.

*Two hours, through the year.*

MR. ROOPE

**37. Research Work in Physics.** Research work on an original problem in Physics. Required of candidates for the Master's degree.

MR. ROOPE

**310. Seminar and Research Conference.** A seminar on modern theories of Physics, together with conferences on current literature and on the researches in progress.

*Once a week, through the year. W., 4-6.*

THE STAFF DEPARTMENT

## DEPARTMENT OF PSYCHOLOGY\*

PROFESSOR MURCHISON, PROFESSOR HUNTER, ASSOCIATE  
PROFESSOR JONES AND ASSISTANT PROFESSOR GRAHAM,\*\*  
VISITING PROFESSOR CARMICHAEL (1931-32).

*Also PROFESSOR HOAGLAND of the Department of Biology.*

### LABORATORY FACILITIES

The Psychological Laboratories occupy thirty-two rooms on the third floor of the Main Building of the University. These laboratories were established by G. Stanley Hall immediately after the founding of Clark University, and constituted the first adequately appointed and complete psychological laboratories in America. These laboratories, under the direction of Edmund C. Sanford and John W. Baird, increased rapidly in size and in research possibilities. The collection is rich in historical apparatus and is especially complete in the better types of chronoscopes, the Vernier chronoscope being invented and developed here by Edmund C. Sanford. The laboratories have an annual appropriation sufficient to provide for the purchase and manufacture of any apparatus that may be required for general and special investigations.

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\*The Department of Education and School Hygiene was merged with the Department of Psychology at the beginning of the year 1926-27.

\*\*Absent on leave, 1931-32.



The workshop contains an excellent equipment for the manufacture and repair of apparatus. The animal laboratory is easily one of the largest and best-equipped in the country.

#### LIBRARY FACILITIES

The library facilities for research in Psychology, Anthropology and Education are exceptional both in range and in quality. Approximately one-half of the entire Clark University Library consists of reference works in these fields. All the important psychological journals in the world come regularly to the library.

#### FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

In addition to assistantships in psychology, a generous number of scholarships and fellowships are available from year to year ranging in value from \$150 to \$600.

#### UNDERGRADUATE WORK

The Department offers work in General Elementary Psychology, Elementary Experimental Psychology, Elementary Educational Psychology, and will offer such additional courses to undergraduates as will make possible a major in Psychology.

#### GRADUATE WORK

*NOTE: Beginning with September, 1931, the organization involves a relationship between the Department of Biology and the Department of Psychology whereby students in either Department may be credited with certain advanced courses and research in the other. Candidates for the degree of Doctor of Philosophy in Psychology will be required to minor in General Physiology, and in order to do this will be required to have, or to obtain, the necessary elementary knowledge of Biology, Chemistry, Mathematics, and Physics.*

**Admission.** Admission to graduate work in Psychology, as in the case of other departments, is subject to the approval of the Graduate Board. However, the Graduate Board does not admit without the approval of the Department. Admission is open to those individuals who have been graduated from accredited institutions, and whose academic record gives promise of the success-



ful conduct of graduate work. Admission is not open to those who have never had training in Elementary Psychology.

**Courses.** Each graduate student in full residence in the University is required to carry a full schedule of courses, such courses to be selected with the advice of the instructors concerned and with the approval of the Department. The courses in the Department are planned so as to give each student working for an advanced degree such necessary training as courses can give.

**The Master's Degree.** The general University requirements for the master's degree are explained elsewhere in the catalogue. The Department will supplement these requirements in individual cases where it seems wise to do so. Students hoping to become candidates for the master's degree, such degree to be conferred at some definite future time, should discuss the matter without delay.

**The Doctor's Degree.** Only superior graduate students are encouraged to become candidates for the doctor's degree. Not only is such a candidate required to obtain exact information concerning all the significant psychological methods of research, but he is also required to demonstrate actual ability to use one or more of these methods in original research on important problems. The thesis problem should be agreed upon before the end of the second year of residence, and should be the chief occupation of the student during the final year in residence. A student will be unable to receive his degree in less than three years unless he comes credited with graduate work elsewhere.

**Theses.** In addition to the general University requirements concerning the preparation and delivery of theses, the Department has a supplementary requirement of an additional copy of each thesis, as well as a suitable photograph of the author, to remain on file in the Department.

## COURSES IN PSYCHOLOGY

### 1. PRIMARILY FOR UNDERGRADUATES

**11a. General Elementary Psychology.** This course is an introductory course in Elementary Psychology and is prerequisite

for all the following courses in the Department. Textbook lectures and collateral reading.

*Three hours*, first semester. Tu. Th., S., 11 MR. GRAHAM  
Omitted in 1931-32.

**12b. Experimental Psychology.** Lectures, laboratory and collateral reading. Students will be made familiar, by use, with the apparatus used in psychological investigations. This course or its equivalent is prerequisite to 202 and 203, and to all work for advanced degrees.

*Three hours*, second semester. Tu. Th., 2. W. at 2 may be substituted for either Tu. or Th. MR. GRAHAM

Omitted in 1931-32.

**14a. Elementary Educational Psychology.** A study of the dynamics behind conduct and of the interaction between these "drives" and school processes. Attention will be given to the nature versus nurture controversy. The bearing of factors of personality on school and after-school success will receive some attention.

*Three hours*, first semester. Tu. W. Th., 12. MR. JONES

**15b. Individual Differences and Exceptional Children.** A review will be given of the latest contributions to the problem of individual differences. Study will be made of various current policies in dealing with this problem in public and private schools. Some attention will be devoted to exceptionally bright and exceptionally dull children, and various methods, past and present, employed by schools in teaching such children will be examined.

*Three hours*, second semester. Tu. W. Th., 12.

MR. JONES

**16a. Principles of Education.** School's responsibilities in preserving the race heritage; education past and present as related to health, family life, economic life, recreation and religious life; functions and policies of the elementary school, the secondary school, and the college in view of the present social, political, and

economic conditions of the United States; American education and world citizenship.

*Three hours*, first semester. M. W. F., 10.

MR. JONES

**17b. Philosophical and Historical Foundations of Modern Education.** By assigned readings, reports, and discussions some of the concepts underlying modern educational policies and practices will be studied. By way of illustration, frequent comparisons will be made between the present educational aims and procedures in the New World and those in some of the countries of the Near East.

*Three hours*, second semester. M. W. F., 10.

MR. JONES

**18b. Fields of Psychology.** An introduction to the different fields of Psychology, including Experimental, Social, Child, Abnormal, Applied, and other branches of the science. Also an introduction to statistical methods. Open to students who have completed Psychology 11a. Number limited.

*Three hours*, second semester.

MR. GRAHAM

Omitted in 1931-32.

## 2. FOR GRADUATE STUDENTS AND ADVANCED UNDERGRADUATES

**201. Physiological Psychology.** Audition, gustation, olfaction, nystagmus, hunger, and thirst.

*Two hours*, through the year. W., 2.

MR. CARMICHAEL

**202. Sense Organ Functions.** This course deals with the functions of the various departments of sense: vision, audition, smell, taste, pressure, pain, temperature, and kinesthesia.

*Two hours*, through the year. Tu. Th., 9.

MR. GRAHAM

Omitted in 1931-32. To be offered in 1932-33, and alternate years.

**203. Reflex Activity.** Subjects studied are those concerned with the problems of integration of response in the reacting organism: spinal, postural, and conditioned reflexes as components of behavior; the rôle of autonomic activity in conduct; emotional responses.

*Two hours*, through the year. Tu. Th., 9.

MR. GRAHAM

Omitted in 1931-32. To be offered in 1933-34 and alternate years.

**Biology 200.—General Physiology.** (For description, see announcement of Department of Biology).

**Biology 205. Seminar in Experimental Biology.** (For description, see announcement of Department of Biology).

**206a. Animal Behavior.** A study of animal behavior with particular reference to the vertebrates. Emphasis will be placed upon the topics of instinct, habit formation, sensory processes, and the higher adaptive forms of behavior. The course offers an introduction to the current theory of behaviorism. Laboratory work, by appointment, will occupy one-third of the course.

*Three hours*, first semester. M. W. F., 12. MR. HUNTER

To be offered as a two-hour course through the year in 1932-33; M. W., 10.

**207b. The Learning Process.** A critical and experimental study of the chief problems of learning and memory. One-third of the course will be devoted to laboratory work at hours to be arranged.

*Three hours*, second semester. M. W. F., 12. MR. HUNTER

To be offered three hours, first semester, in 1932-33; Tu. Th. S., 10.

### 3. PRIMARILY FOR GRADUATE STUDENTS

**301a. Seminar in the Principles of Psychology.** A comparative study of systems of psychology with particular reference to structuralism, functionalism, and behaviorism.

*Two hours*, first semester. Tu. 11. MR. HUNTER

To be offered two hours, second semester, in 1932-33; Tu., 10.

**304. Journal Club.** To be devoted to the study of selected topics in current psychological literature. All students *majoring* in Psychology for advanced degrees are members of the Journal Club.

Through the year. W., 4. THE STAFF OF THE DEPARTMENT

**305. Research.** This course is intended primarily for graduate students engaged in research for the doctor's degree. It is also open to other students for the investigation of some special



problem. Prerequisite, the consent of the Instructor under whom the work is to be done.

#### THE STAFF OF THE DEPARTMENT

**Biology 306. Mechanisms of Reaction.** (For description, see announcement of Department of Biology).

**310. Child Behavior.** This course will consist of a critical examination of the literature bearing on the experimental investigation of child behavior.

*Two hours, through the year. Th., 4.* MR. MURCHISON

**311. Social Psychology.** A systematic survey of the literature of Social Psychology, with special emphasis on such literature as is available concerning the Psychology of Society.

*Two hours, through the year. Th., 4.* MR. MURCHISON

**313a. Advanced Educational Psychology: Group Methods of Experimentation.** The purpose of the course will be primarily to give practice in the most valuable statistical methods for psychological experimentation.

*Two hours, first semester. Tu., 4.* MR. JONES

**314b. Advanced Educational Psychology: Psychological Tests and Measurements.** A systematic and critical survey of psychological tests. Both theoretical and applied aspects of testing will receive consideration.

*Two hours, second semester. Tu., 4.* MR. JONES

**315. Quantitative Interpretation of Experimental Data.** The subject-matter of this course is of such a nature as to provide the student with a general knowledge of principles used in quantitative treatment of psychological and physiological data. Stress is placed on the problem of verification of hypothesis by quantitative methods. Non-statistical.

*Two hours, through the year. F., 4.* MR. GRAHAM

Omitted in 1931-32. To be offered in 1932-33 and alternate years.



## DEPARTMENT OF ROMANCE LANGUAGES

PROFESSOR CHURCHMAN, ASSISTANT PROFESSOR DOUGHERTY

See the statement of the general requirement in foreign language, page 52, for all candidates for the A.B. degree in the announcement of the Undergraduate Division.

As now organized, the French courses in this Department are planned with the following ends in view: French 11 and 12 are the basic language courses, in which it is the purpose to develop reading power and some ability to understand the spoken language, with at least a beginning of writing and speaking. When possible a student should take the full twelve hours of this sort of work. To the student who has completed 12, courses 13 and 14 offer an option between a continuance of general language work and a course limited to translation and literature; both may of course be taken. Those who wish to continue the study of literature after taking 14, will take the "General View," course 114, which may be followed by the courses in which the literature of the Middle Ages, the 16th, 17th, 18th, 19th and 20th centuries is studied intensively (courses 15, 115, 16, 116, 19, 119); maturer students with the proper background may take 114 without having had 14, or may go directly from 14 to the advanced courses. Those interested primarily in the study of the language will take 13 and then 17, the latter being especially valuable for teachers of French.

A *major* in Romance Languages consists of at least twenty-four semester hours selected from the courses described below.

A typical *major* for a student who has had three years of French in the high school would include courses 13, 14, 114 and one of the intensive courses in literature (15, 115, 16, 116, 19, 119) or the Advanced Composition course (17). Those who have had French for two years in high school would begin with French 12. A beginner would take 11, 12, 13 or 14 (or both), and 114.

### COURSES IN FRENCH

#### 1. PRIMARILY FOR UNDERGRADUATES

**11. For Beginners.** Grammar, pronunciation, oral work, and composition, based on Fraser and Squair's *Elementary French Grammar*. For a proper orientation in aural-oral work, the phon-

etic approach is used, and oral exercises are utilized throughout as a basis for speaking ability and for general language drill; but the main purpose of the course is to develop reading ability, Greenberg's *French Silent Reader* and Ford and Hicks's *New French Reader* being used side by side, with the purpose of developing both the cursory and the intensive types of reading. One book on French civilization is read when possible. The four-phase method is used throughout, the emphasis being first upon reading, secondly upon aural comprehension, thirdly upon constructive work in writing, and finally upon oral exercises.

Not divisible. Possibly omitted in alternate years, beginning in 1932-33. Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 12.

MR. CHURCHMAN

**12. Intermediate.** A continuation of course 11, also open to students who have passed two years of high school French. The reading of a considerable amount of modern French, a thorough review of grammar, exercises in composition and pronunciation, an introduction to the study of phonetics. The reading is selected from the principal genres: *French Short Stories* (ed. Hills and Holbrook); a play, such as V. Hugo, *Hernani*; a novel, V. Hugo, *Quatre-Vingt-Treize*. Fraser, Squair, and Carnahan, *Brief French Grammar*, is the basis of work in grammar and composition.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 8.

MR. DOUGHERTY

**13. Advanced.** A continuation and supplement of the language work of course 12, also open to students who have passed three years of high school French. Since the parallel course (French 14) offers ample opportunity for the development of reading ability, the emphasis in French 13 is placed upon the spoken and written language. The following are the principal texts used during the year: Barton and Sirich, *French Grammar and Composition*; Brown and Chapman, *French Composition and Conversation*; Churchman and Hacker, *First Phonetic French*

*Course.* A limited amount of reading of texts such as M. Clavel, *Terres et Gens de France*.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 9.

MR. DOUGHERTY

**14. Readings in French Literature.** Open to students who have completed French 12, or who have passed three years of high school French. Of equal rank with French 13, this course is intended to enable the student to read difficult French readily. It serves also as an introduction to French Literature, from the contemporary period to the seventeenth century, inclusive. G. L. Strachey, *Landmarks in French Literature*, is the chief historical guide; it is supplemented by occasional readings in standard histories of French Literature, such as those of C. H. C. Wright and Nitze and Dargan. At least two great works from each century since 1600 are read thoroughly. The following list is fairly representative of the literary masterpieces read during the year: Romain Rolland, *Jean Christophe, l'Aube*; Dumas, *filis, le Demi-Monde*; Flaubert, *Trois Contes*; Beaumarchais, *le Mariage de Figaro*; Voltaire, *Candide*; Racine, *Phèdre*; Molière, *Tartuffe*; Corneille, *Horace*.

Open to Freshmen.

Three hours, through the year. Tu. Th. S., 12.

MR. DOUGHERTY

Note: *Courses 13 and 14 are of equal difficulty. Either one may be taken upon the completion of French 12 or three years of high school French.*

**114. General View of French Literature.** This course should ordinarily be preceded by French 14, but it is open also to students with good literary background who have been in the upper quarter of French 12, or the upper half of French 13, or who have had at least four years of French in high school. Its aim is to give a unified account of the development of French literature from the beginning to the present time. The early texts are read in translation or in modernized French versions; Paris: *Récits du moyen âge*; Paris-Langlois, *Chrestomathie du moyen*

âge; and Cons, *Anthologie littéraire de la renaissance française*. Of the material since 1600, some is carefully translated, and some read for the meaning only, from Vreeland and Michaud, *Anthology of French Prose and Poetry* and Lecompte and Searles, *Anthology of Modern French Literature*. The manual of literature used is *French Literature in Outline* by Churchman and Young; material from G. L. Strachey's *Landmarks in French Literature* is also considered.

Three hours, through the year. Tu. Th. S., 10.

MR. CHURCHMAN

Note: *The courses in literature listed below (15, 115, 16, 116, 19, 119), are now offered each year to qualified students as private conference courses, devoted to wide reading by the student along lines suggested by his own preferences but under guidance by the instructor in weekly conferences. Before undertaking any of these courses it is ordinarily assumed that the student will have successfully completed French 114 and will have given evidence of ability to do advanced work by himself.*

**15. Literature of the Seventeenth Century.** A large amount of reading from the works of Corneille, Racine, Molière, Boileau, La Fontaine, Descartes, Pascal, La Rochefoucauld, Bossuet, La Bruyère, Mme. de Sévigné. Selections from the minor authors contained in *An Anthology of Seventeenth Century French Literature* (Princeton University Press). Historical and critical survey of the literature of the period, based upon Abry, Audic and Crouzet's *Histoire illustrée de la littérature française* and the works of other critics. The main purpose of this course is to give the student a first-hand knowledge of the masterpieces of French classical literature, with a connected and critical knowledge of the literary history of the period. For conditions of admission see note above.

Three hours, through the year.

MR. DOUGHERTY

Omitted in 1931-32.

**115. Literature of the Middle Ages.** Guided by a suitable manual of the literary history of this period, the student will read extensively in the Paris-Langlois *Chrestomathie* and from medieval masterpieces available in modern French versions or in English



translation. *La Chanson de Roland, Aucassin et Nicolette*, Chrétien de Troyes, *Erec et Enide*; Marie de France, *Lais*; Thomas, *Tristan et Iseult*, Paris et Jeanroy (ed.), *Extraits des Chroniqueurs*; A. Jeanroy (ed.), *Contes et Récits de la vieille France*. French history of the Middle Ages, medieval culture, and similar related topics will be treated by collateral reading and discussion. For conditions of admission, see note above.

*Three hours*, through the year.

MR. DOUGHERTY

Omitted in 1931-32.

**16. Literature of the Nineteenth Century.** Historical and critical survey, with wide reading from the most significant authors of the century up to the year 1890. The spirit, method, and plan of work are similar to those of course 15. After a consideration of the later eighteenth century and of the work of Chateaubriand and Madame de Staël comes the intensive study of the literary masterpieces of the nineteenth century, especially lyric poetry, drama, and the novel, accompanied by a discussion of the facts and comment contained in Abry, Audic and Crouzet's *Histoire illustrée de la littérature française* and in the writings of other critics. Galland and Cros, *Nineteenth Century French Prose*, and G. N. Henning, *French Lyrics of the Nineteenth Century*. Selected masterpieces entire. For conditions of admission, see note above.

*Three hours*, through the year.

MR. CHURCHMAN

Omitted in 1931-32.

**116. Literature of the Sixteenth Century.** A study of the outstanding literary movements and masterpieces of the period, with special consideration of the works of Rabelais and Montaigne. Due attention will be given to matters of historical and cultural importance. The writings of minor authors will be read in L. Cons: *Anthologie littéraire de la renaissance française*. Collateral reading and discussion. For conditions of admission, see note above.

*Three hours*, through the year.

MR. DOUGHERTY

Omitted in 1931-32.

**17. Phonetics, Advanced Composition and Oral Work.** Designed to provide teachers and other advanced students with a



ready command of the spoken and written language. Review of the theory and practice of pronunciation upon a phonetic basis in J. W. Jack's *French Pronunciation and Diction*. Systematic study of grammar and syntax in Holbrook's *Living French* and Armstrong's *Syntax of the French Verb*, and through special study of selected topics by means of references to several standard authorities. Intensive linguistic work in Cru's *la Lecture expliquée*. Oral work of various sorts. Open to students who have passed course 13 with credit, or who have done work equivalent in kind and amount.

*Three hours*, through the year. M. W. F., 10.

MR. CHURCHMAN

**19. Literature of the Eighteenth Century.** Historical and critical survey, with wide reading from the most significant authors of the century. Essential texts are Schinz' *Eighteenth Century French Readings* and Bremer-Goodyear's *Eighteenth Century French Plays*. Intensive reading of single authors upon the initiative of the student. Particular emphasis on Voltaire and Rousseau. Constant use will be made of such manuals as Abry, Audic and Crouzet's *Histoire illustrée de la littérature française*. The spirit, method, and plan of work are similar to those of course 15. For conditions of admission, see note above.

*Three hours*, through the year.

MR. CHURCHMAN

Omitted in 1931-32.

**119. Contemporary French Literature.** A study of fiction, poetry and drama since about 1890, beginning with Anatole France, Bourget, and Rostand, and taking up representative works by modern authors since. *Representative Contemporary French Lyrics* (Delpit). Cunliffe and De Bacourt's *French Literature During the Last Half Century*, with reference to Lalou, Bédier-Hazard, etc. For conditions of admission, see note above.

*Three hours*, through the year.

MR. CHURCHMAN

## COURSES IN SPANISH

### 1. PRIMARILY FOR UNDERGRADUATES

**11. Elementary Course.** The first purpose of this course is to develop the ability to read, but considerable attention is paid to

the details of elementary grammar and to pronunciation. A definite effort is made to interest the student in the artistic and cultural achievements of Spain, in connection with the texts read in class. Hills and Ford, *A Spanish Grammar for Colleges*; Brown, *A Spanish Reader for Beginners*; one novel of moderate difficulty.

Not divisible.

Open to Freshmen.

*Three hours*, through the year. M. W. F., 10.

MR. DOUGHERTY

**12. Intermediate Course.** Combination of readings from Spanish literature with more advanced study of the language, oral and written. Review of the language in Crawford's *First Book in Spanish*. Reading of representative masterpieces, e.g., *Don Quixote* (selections), one modern novel, one play, short stories. Open to students who have passed course 11 or two years of Spanish in the high school.

Open to Freshmen.

*Three hours*, through the year. Tu. Th. S., 9.

MR. CHURCHMAN

Omitted in 1931-32.

# DEGREES CONFERRED

In the Calendar Year 1931

## BACHELOR OF ARTS

Michael John Ambrose	Philip Alfred Klinglof
Alton Rudolph Anderson	Reino Korpi
(With Honor)	(With Honor)
Irving Argoff	Martin Krutzky
Wilfred Rutman Arick	Robert Wesley Medin
(With High Honor)	John Bryant Olds
Wallace Cameron Bartlett	Mahlon Mackerrow Oswell
(With Honor)	Richard Joseph Philbin
Myron Arthur Bean	Arthur Scoville Popple
Maxwell Samuel Beeber	Stephen Thomas Riley
Milton Brightman	(With High Honor)
Horace Alvin Brown	Louis Edward Shapiro
Morris Yale Brown	(With Highest Honor)
James Francis Burke	Milton Samuel Sheftel
Winton Irving Catlin	Walter Roberts Sherman
Marshall Gorham Clark	Stuart Howes Simonds
Joseph de Marco, Jr.	William Harold Somers
Carl Louis Eidam	Elmer Lincoln Swett
Chauncey Louis Eisner	Charles Mallery Toy
(With Honor)	Elwin Holbrook Twombly
Edward Clark Foster	(With Honor)
William Haddad	Parker Wellington
Philip William Johnston, Jr.	Albert Newton Wells
George Dwight Kaneb	Boardman Adelbert West
Irving Katz	Harold Davis Weymouth

Albert Charles Wright

*Borvich, Moses - degree conferred 9-4-31 "as of" 6-8-31.*

## BACHELOR OF EDUCATION

August 6, 1931

Anna Louise Campbell	Anne Cecilia Conroy
Teresa Josephine Cavanaugh	Florence Patricia Costello
Nellie Elizabeth Conlon	John Joseph Drohan

Mary Rachel Galvin	Grace Elizabeth McAuliffe
Marion Harney	Annie Veronica McGourty
Margaret Christina Kennedy	Sabina Gertrude O'Connor
Grace Louise Lee	Josephine Rose Power
Margaret Frances Lee	Katherine Loretta Power
Helen Frances Lombard	Mary Catherine Roberts

## MASTER OF ARTS

Michael Abelsky	En-Lan Liu
Florence Becker	Lawrence Cutler Mansur
John Aloysius Bergin	Elizabeth Snow Merriman
Nelson Markley Bortz	Jonathan Frederick Moore
Adelbert Kenneth Botts	Hugh Mackenzie Morrison
Albert Sigfrid Carlson	Frederick Marean Murdock
George Sibley Corfield	Grace Muse
Albert Clarence Erickson	Mary Alice O'Donnell
Oscar Feinsilver	Victor Ellsworth Pitkin
Edith Eunice Fishman	John William Hughes Ross
Guilbert Robertson Graham	Emily Tarbell Rutter
Eunice Constance Gronvold	Harry David Solomon
George Higginbottom	Rebecca Martin Taliaferro
Mattie Lucile Kidder	John Leslie Van Der Voort
Thomas Kinsella	Clarice Janette Weeden
Eino Frederick Laakso	Theodore Alexis Wiel
Robert Levine	Philip Willauer

Frank Edward Wilson

## DOCTOR OF PHILOSOPHY

Edna Fay Campbell	Sigismond de Rüdesheim
George Babcock Cressey	Diettrich
	Edwin Jay Foscue
	Charles Roger Hicks

## SUMMARY

Bachelor of Arts	<del>44</del> 43	Master of Arts	35
Bachelor of Education	18	Doctor of Philosophy	5

# REGISTER

Names of students are grouped in three lists, I, those who registered in either semester of 1930-31. II, those who attended the 1929 Summer School and III, extension students.

Explanation: S—scholar; F—fellow; HF—honorary fellow; numerals 30, 31, 32 and 33 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; B—biology; Ch—chemistry; Ec—Economics and sociology; G—geography; Gl—geology; H—history and international relations; Ph—physics; Ps—psychology.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

This list includes the names of all who have matriculated and registered. An asterick (\*) indicates that the student has withdrawn from the University prior to March 1, 1931.

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Ablondi, John Vincent	33	Framingham	
Adams, Lambi Nicholas	33		105 Millbury
Allan, Walter Scott	35		38 Clifton
Ambrose, Michael John	H S		17 Fox
Anderson, Alton Rudolph	Ps S		214 Holden
Anderson, Carl Henry	33		38 Orne
Anish, Alfred William	34		7 Moen
Arick, Wilfred Rutman	Ch S		109 June
Aronovitz, Edward	33		20 Wabash Ave.
Arsenault, Philip Elwin	35		3 Wachusett
Ashworth, Jessie Ellen	H F	Orono, Me.	21 Shirley
Back, Arthur William	33		55 Downing
Backstrom, Arthur Richard	34	Auburn	
Bagdasarian, Raffy Der	35		48 Forbes
Baldwin, Charles Howard	35	Auburn	
Barkhouse, Arthur Julius, Jr.	34	Brookline	
Bassinov, Saul	34	Mattapan	11 Loudon
Battersby, Kenneth Arthur	32		974 Main
*Bauman, Milton	34	Fitchburg	
Beckman, Lloyd Franklin	35	Haverhill	Estabrook Hall
Beeber, Raymond Alton	35		14 Dover
Beigelman, Herman	33	Roxbury	12 Oberlin
Bennett, Alfred Wardle	33	Auburn	
Benson, Gordon Luman	33	West Brookfield	
Berkovich, Louis	32	Dorchester	17 Crystal
Berman, Warren William	34	Haverhill	17 Crystal
Berthiaume, Gerard Mandeville	35	Spencer	
Bingham, Thomas Francis	34	Nashua, N. H.	Estabrook Hall
Biron, Archie Henry	32	Williamstown	Estabrook Hall
Bishop, Harold Mason	34	Shrewsbury	
Bither, Wallace Frank	33	Sandwich	20 Gates
Bland, Isadore Chester	H F	W. Hartford, Conn.	4 Woodbine
Bliven, David Percival	34		31 Tallawanda Drive
Bloom, Hyman Robert	35	Roxbury	Estabrook Hall
Bolduc, Robert Aime	35		7 Chrome
Brekters, Rasma	Ec s	Liepaja, Latvia	13 Merrick
Brierly, William Biggar	34	Millbury	
Brissette, Armand J., Jr.	Ec S		34 Piedmont
Brooker, Maurice	35	Boston	Estabrook Hall
Burwick, Maurice Julius	35	Fitchburg	
Butler, Philip Edward	34		21 Preston
Buzak, Albert Justin	Ch s	Roxbury	
Caprio, August	34	Newark, N. J.	138 Woodland
Cardinal, Raymond Francis	33		60 May
Carleton, Thomas McMaster	32	Shrewsbury	
Carlin, James Joseph	35	Hohokus, N. J.	Estabrook Hall
Carlson, Hilding Oscar	B s		43 Catherine
Carpenter, Philip Lattimore	35	New London, Conn.	Estabrook Hall
Carpenter, Thomas Patten	34	New London, Conn.	156 Woodland
Carroll, Arthur Wheeler	34	Barre	Estabrook Hall
Casale, Daniel Joseph	33		74 Fox
Cash, Myrtle	G S	Springfield, Ill.	70 Downing
Casper, Barry	Ps F	Seattle, Wash.	28 Hollywood
Cheka, Joseph Sandor	33	Darien, Conn.	16 Shirley
Christenson, Mildred E.	H s		7 Stowell Ave.



NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Church, Phil Edwards	G F	Berwyn, Ill.	908 Main
Clark, Burton Everett	35	Sutton	
Clark, Frederick Southgate	34	Pittsburgh, Pa.	12 Oberlin
Clark, Hugh Daniel	34	Pawling, N. Y.	Estabrook Hall
Clark, Marshall Gorham	Ch S	Bridgton, Me.	131 Lovell
Clark, Thomas E.	G g	Florence, Ala.	166 Woodland
Clarke, Margaret Barbara	Ec g		4 Dean
Cohn, Charles Baer	35	Allston	Estabrook Hall
Colbert, Maurice James	33	Mechanicville, N. Y.	138 Woodland
Collins, Edward Richard	34		46 Maywood
Colorado, Antonio Julio	H S	Rio Piedras, P. R.	30 King
Conant, Alvah James	34		30 Hartshorn Ave.
Corey, Albert Bickmore	H F	Canton, N. Y.	17½ Richards
Crompton, Davis Hastings	H s		74 William
Crosby, George Howard	34	Worcester	Estabrook Hall
Croteau, John Tougas	Ec g		5 Freeland Terrace
Cutler, Norman Giles	34	West Brookfield	
Darkenwald, Gordon Gerald	G S	Wimbledon, N. D.	6 Hancock
Dearth, John Arthur	H s	West Upton	
Demeter, Peter Leo	35	N. Grosvenordale, Conn.	Estabrook Hall
DeVries, Harold Carlyle	34	Aurelia, Iowa	10½ High
Dombroski, Harry Frederick	35		139 Austin
Donabedian, Sarkis Melkon	32		532 Pleasant
Downey, Joseph Daniel	35		238 Webster
Drawbridge, William Jefferson	34	Holden	
Duffy, Frank King	33		8 Oberlin
Dworin, Hymen F.	34	New Britain, Conn.	Estabrook Hall
Dworkin, Myer Arthur	34		23 Fairbanks
Edman, Victor Raymond	H F		144 Wildwood Ave.
Edwards, John Ernest	H S	S. Lancaster	
Erickson, Roland Axel	35		35 Olga Ave.
Estabrook, Allen Laidlaw	33		7 Cedar
Fairman, Alonzo Bruce	35	Springfield	Estabrook Hall
Falk, Abraham	34	Newark, N. J.	Estabrook Hall
Ferguson, Otis Cowan	34		17 Catalpa
Fillback, Armas Walfred	35	Fitchburg	
Fine, Robert	33		29 Bridgeport St.
Fitzpatrick, Robert Joseph	33		11 Healy Rd.
Flynn, Kathryn Lane	H s		10 Grand
Forrest, Edward Lester	34	Stockbridge	20 Gates
Fountain, Lawrence Franklin	C F	Wells, N. Y.	24 Loudon
Fox, Louvane Alfred	33	Waterbury, Conn.	4 Norwood
Frankel, Edward	35		39 Providence
French, George Malcolm	33	Stockbridge	Estabrook Hall
French, Wellington Armstrong	34	Stockbridge	Estabrook Hall
Furtek, Stanley Dwight	33	Chicopee	6 Charlotte
Gadaire, Charles Rice	32	Brookfield	
Callagher, Cleon Wallace	34	Uxbridge	
Galvin, Howard William	32		146 Lincoln
Gardner, Irving Arthur	32	Lowell	
Gibson, Joshua Sullivan	C g	Bowling Green, Ky.	14 Oberlin
Gissen, Max	33	Brattleboro, Vt.	431 Lake Ave.
Gladding, Royal Henry	32	Providence, R. I.	Estabrook Hall
Claude, Paul Marcel	35	Biddeford, Me.	23 Bellevue
Clickman, Ada Sophie	Ec S	New York City	10 Edgewood
Goldberg, Bernard Israel	32	Salem	3 Maywood Pl.
Goldberg, Jacob	35	Dorchester	
Goldenberg, Alfred	35		94 Cutler
Goldman, Nathan	Ps F		9 Lamar Ave.
Gordon, Bennett Edward	35		10 Knowlton Ave.
Gould, David Marshal	35		59 Vale
Goulding, John Paul	35	Leicester	Estabrook Hall
Grace, Sydney	Ch s		7 Intervale Rd.
Graham, Arthur Robert	35		14 Lewis
Graham, Boynton	34	Haverhill	35 Maywood
Grimmer, Herman Joseph	33	New Glasgow, N. S.	71 Jacques Ave.
Grossman, Maurice Benjamin	33	Greenfield	980 Main
Grout, Milton Lory	35		83 Olean
Gruzdzi, Vincent Paul	34		39 Canton
Hair, Richard Chalmers	32		85 Downing
Hall, Oliver Richard	35		12 Hanson Ave.
Hall, Perry Blackmer	33	Dudley	35 Maywood
Harrison, James	33	Brighton	16 Shirley
Harwood, Ernest Monroe	32	New Britain, Conn.	35 Maywood
Hatch, Kenneth Stewart	35	Oromocto, N. B.	W. Boylston

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Heath, Herschel	H F	Wichita, Kan.	131 Lovell
Hemenway, Everett Merritt	34		17 Trenton
Henderson, Mildred Amy	H g		30 Tower
Herrick, Guy Scott	Ch S	Lewiston, Me.	166 Woodland
Higginbottom, Arthur Raymond	32	Millbury	
Higginbottom, Russell William	33	Millbury	
Higginson, William John	G S	Hartford, Conn.	57 May
Hillhouse, Douglas Paton	34	West Haven, Conn.	Estabrook Hall
Hines, A. Gertrude	Ec s		1002 Main
Hirtle, John Richard	35	Brookfield	
Hodge, Walter Henricks	34		21 Suburban Rd.
Holmes, Stanley Albert	34		3 Ureco Terrace
Holmgren, Axel Verner	32		34 Ames
Holter, Richard Norman	34		23 Brighton Rd.
Horne, Glendon Cloyes	35	Shrewsbury	
Horovitz, Edward Harry	33	Roxbury	12 Oberlin
Horowitz, Mildred	Ps S	Brooklyn, N. Y.	12 Grand
*Hotkowski, Edward John	Ch s	Stafford Springs, Conn.	835 Main
Houston, Charles Edwin	Ec S	Marionville, Mo.	4 Hancock
Howarth, George Everett	33		26 Arthur
Hudgins, Clarence V.	Ps F	Diggs, Va.	20 King
Hurlburt, Harry Waite	35		45 Dover
Ishii, Ryoichi	Ec F	Tokyo, Japan	166 Woodland
Jackson, Margaret Agnes	G S	Westboro	
Jaffe, Sydney	33	Dorchester	
Janus, Christopher George	35	Montclair, N. J.	Estabrook Hall
Johanson, Yngve Walter	33	Oakdale	35 Maywood
Johnson, Charles Francis	34		58 Olga Ave.
Johnson, Walter Leonard	Ec S	Kane, Pa.	166 Woodland
*Jones, Charles Leonard	35	Mechanicville, N. Y.	Estabrook Hall
Kabaker, Charles Bernard	33		45 Granite
Kaneb, Kenneth Abraham	34		602 Grafton
Karaku, Louis Theodore	33		24 Bancroft
Karn, Harry Wendell	Ps F	Pittsburgh, Pa.	14 Kingsbury
Kayer, Donald Allen	34		54 Dover
Kemp, Edward Harris	Ps S	Zebulon, N. C.	934 Main
Kendall, Gerald Meringer	H F	Leominster	908 Main
*Kingman, Celia Collins	G g	Providence, R. I.	
Kinsella, Thomas	Ec F	Newburgh, N. Y.	166 Woodland
Kirby, William Thomas	35	Dalton	Estabrook Hall
Klinglof, Philip Alfred	Ch S		201 Lincoln
Kneller, George Frederick	H g		49 May
Knox, Arthur Randall, Jr.	32	Taunton	20 Gates
Korpi, Urho	33		18 Catherine
Kroll, Gladys	Ps S	New York City	4 Hancock
Krutzky, Martin	Ch s	Redwood, N. Y.	1 Greenwood
Kushner, Joseph Martin	35	New London, Conn.	Estabrook Hall
Laakso, Toivo Matthews	33	Gardner	4 Cristy
Lauf, Paul A.	33		219 Park Ave.
Leach, Morton Glenn	32		1 Beaver
Lehtinen, Paul John	34		2 Ashton
Leighton, Herbert Towle	34	Morristown, N. J.	Estabrook Hall
Lemaire, Minnie Ethel	G g		4 Kendrick Ave.
Levine, George	34	Brooklyn, N. Y.	Estabrook Hall
Levine, Jacob	35	Dorchester	
Levine, Robert	H F	Brooklyn, N. Y.	448 Chandler
Lisk, George Francis	35	Millbury	
Lukens, Philip Woodman	33	Burlington, N. J.	35 Maywood
MacKimmie, G. Ross	34	N. Amherst	847 Main
MacKnight, Jesse Mackenzie	H S	Lakewood, N. J.	33 Hollywood
Malkiel, Saul	34	Mattapan	
Malmstead, Chester Winfield	32		151 Vernon
Marshall, Benjamin Tinkham, Jr.	33		31 May
McBryde, Felix Webster	G F	New Orleans, La.	166 Woodland
McCabe, George Edward	33	Arlington	Estabrook Hall
McCauley, Byron Francis	34	Dalton	1003 Main
*McLaughlin, Marie Martha	G g	McKeesport, Pa.	
McLaughlin, Theodore Thomas	34		6 Ward
Meleski, Anthony Paul	32		130 Endicott
Melia, James Francis	35		98 Sterling
Menard, Roland Joseph	B s	Spencer	
Metcalf, John William, Jr.	32	Brockton	766 Main
Michaels, Arthur	32	Everett	16 Tirrell
Mikelk, Franz Stanley	35	Gilbertville	
Miller, Aussie Archie	Ec F	Burkeville, Tex.	166 Woodland

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Moore, Jonathan Frederick	Ec F		25 Bay State Rd.
Moore, Norman Buck	35	Sterling	
Moran, John Joseph	32	Clinton	14 Oberlin
Morrison, Hugh MacKenzie	H F	Vancouver, B. C.	26 Benefit
Moss, Paul Francis	34		19 Richmond Ave.
Mulvey, George	33	West Brookfield	
Neet, Claude Cassell	Ps F	Glendora, Calif.	28 Florence
Nelson, Clifford Sylvester	Ch s	Willmax, Minn.	87 Florence
Northup, Francis Farrington	32	Bangor, Me.	Estabrook Hall
Oberg, Ernest Victor	34		8 Victoria Ave.
O'Connor, John Francis	34		67 Oread
Ohrn, Roy August	34		18 Mill
Oliver, A. Russell	C F	Great Falls, Mont.	166 Woodland
O'Neil, Richard James	35	Garden City, L. I., N. Y.	Estabrook Hall
Orebaugh, Walter William	H S	Wichita, Kan.	7 Irene St.
Ormrod, James Francis, Jr.	B s		51 Perry Ave.
O'Toole, Edward John	33		18 Dallas
O'Toole, George Augustine	32		89 Houghton
Paivarinta, Olavi	33	Gardner	
Parker, David Jillson	33		4 Agawam
Parker, Harry Clarence	B g		766 Main
Pearcy, George Etzel	G S	Los Angeles, Calif.	6 Hancock
Pender, John James	34		2 Abington
Perlenfein, Harold Henry	B F	Jersey City, N. J.	766 Main
Perman, Maxwell Louis	35		74 Providence
Phair, James Arthur	32	Shrewsbury	
Philbin, Richard Joseph	H g	Lancaster	922 Main
Pils, Meta Henrietta	G g	Bloomington, Ill.	908 Main
Pineo, Charles Stanley	Cl s	Westboro	
Piper, Lewis Hamlin	H F	Deerfield	33 May
Politsch, Lloyd	33	Gloversville, N. Y.	35 Maywood
Pomerat, Charles Marc	32	W. Springfield	766 Main
Pomeroy, Everett Graham	35	Sunderland	156 Fairhaven Rd.
Porter, David Russell	35	Wellesley	Estabrook Hall
Potts, Gerald	H g	Shrewsbury	412 Chandler
Poulin, Eva Anna	H g		91 Penn Ave.
Reardon, Joseph	33	Quincy	Estabrook Hall
Reed, Emerson Charles	33	Addison, Conn.	20 Gates
Reilly, Edmund Joseph	35	Marlboro	
Reynolds, James Bernard	33		142 Wildwood Ave.
Rice, Theodore Adams	34		8 Silver
Richard, Dorothy Elizabeth	H g	Westboro	
Richards, Edgar Ellis	G S	Alden Station, Pa.	794 Main
Richardson, Herbert Leonard	33		310 Mill
Ricker, Henry Carroll	34		36 King
Riley, Stephen Thomas	H S		194 Ingleside Ave.
Robertson, Durant Waite	35	Rutherford, N. J.	Estabrook Hall
Rochette, Robert Phillips	35		15 Colonial Rd.
Rogers, Ernest Edmond	34	West Newton	Estabrook Hall
Rosenblatt, Arthur	33	Chelsea	16 Tirrell
Rosoff, Leon	32	Watertown	
Ross, John William Hughes	Ps F	Jersey City, N. J.	12 Oberlin
Ross, Harold William	35	Spencer	
Ross, Walter Clifford, Jr.	32	Springfield	Estabrook Hall
Rosvall, Toivo David	34		197 Eastern Ave.
Roy, Raymond Serge	33	New Bedford	1003 Main
Ruedi, Oreen Morris	Ec F	Galena, Kan.	156 Woodland
Russell, Roger Wolcott	35		22 Holland Rd.
Russell, William Franklin	34		147 Coolidge Rd.
Salminen, Ilmari Fritiof	33	Hubbardston	Estabrook Hall
Salminen, Wilho M.	32	Hubbardston	Estabrook Hall
Sandman, Jordan Philip	33		120 Elm
Scharf, Ann Elizabeth	G S	Long Beach, Calif.	1004A Main
Schulman, Herman	33		41 Somerset
Schweitzer, Leonard J.	33		12 Allendale
Schwieger, Albert James	Ec F		17 Hammond
Seckler, Pearl	Ps S	Brooklyn, N. Y.	12 Grand
Seligson, Isaac	33	New York City	12 Grand
Selvidge, G. B.	G s	Springfield, Mo.	12 Grand
Shaer, Samuel Stanley	35		401 Lovell
Shapiro, Louis Edward	H S		26 William
Shapiro, Minnie Anne	Ps g		31 Derby
Shappy, Roland Francis	34	Sutton	
Sharrett, Ralph Louis	35	Bristow, Va.	Estabrook Hall
Shaw, Earl Bennett	G F	Monroe, Iowa	

NAME	CLASSIFICATION	HOME ADDRESS	WORCESTER ADDRESS
Shea, Joseph Michael	32		15 Blanche
Sheftel, Milton S.	Ch S		81 Russell
Silver, Benjamin	35		131 Puritan Ave.
Simmons, Anna Genevieve E.	G g	Peterboro, N. H.	48 Downing
Singleton, Francis Joseph	32	New Bedford	55 Downing
Slopak, Abraham	32	Colchester, Conn.	980 Main
Slopak, Elias	34	Colchester, Conn.	980 Main
Smart, Lyndwode Norton Lee	34		37 Oak Ave.
→ Smith, Harold Knowland	33	Danvers	9½ Hancock
Smith, Nathan Joseph	34	Chelsea	16 Tirrell
Smithline, Joseph	34	New London, Conn.	17 Crystal
Snap, William John	33	Camden, N. J.	6 Hancock
Snow, Benjamin Bigelow, Jr.	35		16 Haviland
Solomon, Harry David	Ch S		7 South Stowell
Somers, William Harold	Ec S	Danbury, Conn.	980 Main
Spence, Robert Adams	33		53 Kenwood Ave.
Spencer, Roger Burgess	35		14 Quinapoxet Lane
Steiman, Solomon Eli	33	Brookline	980 Main
Steinert, Joseph	Ps S	Pittsburgh, Pa.	934 Main
Steinhilber, Gustav Walter	33		46 Dorchester
Steinhilber, Otto William	35	Shrewsbury	
Stevens, James	33		¶ Lawrence
Stiles, Robert Edward	34	Amherst	Estabrook Hall
Stockwell, James Bailey	35	Rochdale	
Stone, Robert Granville	G F	Schenectady, N. Y.	166 Woodland
Strub, George Ramsay	33	Plainfield, N. J.	Estabrook Hall
Sukaskas, Vitold	35		18 Hillside
Sullivan, Leo Vincent	33		78 Pleasant
Sumner, Alfred Rockwell	G s	Villa Nova, Pa.	
Sutherland, Arthur Theodore	Ec F	Reno, Nev.	166 Woodland
Swett, Elmer Lincoln	Ch S		32 Bartlett
Talbot, Russell Paul	35		72 Kenberma Rd.
Tappan, Paul W.	34	Danbury, Conn.	35 Maywood
Tashjian, Berge	34		1 Ashland
Taylor, Richard Colton	34	Spencer	
Thomas, Katherine Colvin	G F	Augusta, Me.	3 Maywood Pl.
Thomson, Ronald Gardner	Ec s		957 Southbridge
Todd, Clifford Parker	34	Sterling Jct.	2 Woodbine
Tompkins, Earl Alexander	32	Easthampton	118 Lovell
Toomey, Harry Leslie	G s		4 Northampton
Toal, Ernest Anthony	33		Estabrook Hall
Turner, Stanley Glendon	34	Chester	738 Main
Vinal, Ella Lydia	Ec F	N. Scituate	Estabrook Hall
Vinciguerra, Edmund Albert	35	New Bedford	33 Montague
Walker, Donald Albert	34		830 W. Boylston
Wall, Roy Henry	Ps s		Worcester St. Hosp.
Walsh, Anna Irene	Ch s	Milton	63 Stafford
Walsh, Vincent Martin	32		49 Woodland
*Webster, Priscilla Hollis	G g	Lexington	5 Hockanum Way
Westerholm, Roland John	34		
Weymouth, Harold Davis	Ch S	Fisherville	
Whitehouse, Karl Chism	32	Abington, Conn.	20 Gates
Whitman, Howard Glenn	34		48 Downing
Wiel, Theodore Alexis	H F	Springfield	18 Shepard
Wilder, Frederick Howard, Jr.	34	Waltham	49 Coral
Wilner, Irving	32		41 Beaver
Wilson, Idelle Louise	H F	Victoria, B. C.	16 Shirley
Wilson, Sydney Edward	34	Waterbury, Conn.	
Wood, Walter	35	Warren	
Young, Benjamin Carl	34		55 Granite
Zarrow, Myer X.	34	Millbury	

Smith, Hampton

# 1931 SUMMER SCHOOL

Abbott, Carroll M.  
 Aldrich, Lawson M.  
 Allison, Margaret W.  
 Amos, Jennie  
 Armstrong, John B.  
 Bartlett, Ruth S.  
 Bertsche, Frank  
 Bingham, Margaret  
 Bingham, Mary A.  
 Birchill, Ellen E.  
 Bliven, David P.  
 Blohm, Anna D.  
 Bloomer, Mary E.  
 Boardman, Ethel  
 Bolton, Willa  
 Bond, Evelyn G.  
 Bond, Isabel  
 Boson, Nils  
 Boson, Svea  
 Bowen, Grace L.  
 Brocklebank, Emma O.  
 Brocklebank, Ruth L.  
 Brown, S. Crissy  
 Brown, Virginia M.  
 Bryan, Alice L.  
 Bryan, Florence E.  
 Bryant, Alice G.  
 Bynum, Jefferson C.  
 Cahill, Catherine M.  
 Callahan, Ellen G.  
 Callahan, Susanne  
 Callahan, Winifred C.  
 Campbell, Anna L.  
 Carey, Harriet  
 Carey, Helen  
 Carlson, Albert S.  
 Carlson, G. Virginia  
 Carroll, Marie M.  
 Casserly, Jane  
 Catlin, Winton I.  
 Chaffee, Sadie R.  
 Clarke, Margaret B.  
 Clifford, Mae H.  
 Cobler, Lois  
 Coffey, Grace C.  
 Colbert, Maurice J.  
 Cole, May E.  
 Collins, Anna B.  
 Conlon, Nellie E.  
 Conroy, Anne C.  
 Converse, Anna M.  
 Cotterel, Mary E.  
 Courtney, Elizabeth M.  
 Cowden, Mneatha  
 Craffey, Frances E.  
 Dana, Elizabeth M.  
 Danforth, Margaret A.  
 Davies, Martha  
 Delaney, Mary F.  
 Delano, Helen H.  
 Delehanty, Leonora M.  
 Denton, J. William  
 Dewine, Charles L.  
 Diggins, Grace L.  
 Diggins, Helen B.  
 Donahue, Elizabeth  
 Dorsey, Mary T.  
 Dorsey, Cassa E.  
 Downs, Margaret  
 Drew, Florence E.

Worcester  
 Worcester  
 Crafton, Pa.  
 Akron, Ohio  
 Detroit, Mich.  
 Fulton, N. Y.  
 Rochester, N. Y.  
 Youngstown, Ohio  
 Nashua, N. H.  
 Worcester  
 Worcester  
 N. Tonawanda, N. Y.  
 Springfield  
 Freeport, N. Y.  
 Hattiesburg, Miss.  
 Old Forge, N. Y.  
 Old Forge, N. Y.  
 Winston-Salem, N. C.  
 Worcester  
 Worcester  
 Springfield  
 Springfield  
 Stamford, Conn.  
 Wilmington, Del.  
 W. Medford  
 W. Medford  
 Spencer  
 Potsdam, N. Y.  
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 Worcester  
 Worcester  
 Bridgeport, Conn.  
 New Britain, Conn.  
 Hartford, Conn.  
 Worcester  
 Gardner  
 Garrett, Ind.  
 Worcester  
 Mechanicville, N. Y.  
 Spencer  
 Mount Vernon, N. Y.  
 Worcester  
 Worcester  
 Worcester  
 Reading, Pa.  
 Worcester  
 White Plains, N. Y.  
 Worcester  
 Worcester  
 West Boylston  
 Delaware, Ohio  
 Worcester  
 Yonkers, N. Y.  
 Worcester  
 Roxbury  
 Oswego, N. Y.  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Wheeling, W. Va.  
 Lyndon Center, Vt.





Koenig, Henry A.  
 Langley, Roger F.  
 Larrabee, Ernest A.  
 Lauf, Paul A.  
 Lavin, Leonora  
 Lawyer, Marion C.  
 Lee, Alice A.  
 Lee, Grace L.  
 Lehtinen, Paul J.  
 Lemaire, Minnie E.  
 Lemaire, Willard W.  
 Leonard, A. Loretta  
 Lombard, Helen  
 Lombard, Mildred  
 Looney, Margaret C.  
 Lorow, Helen A.  
 Loungway, Lillian A.  
 Lukens, Philip W.  
 Lynch, Mary V.  
 Mackie, Ida  
 Manning, Howard A., Jr.  
 Manns, Esther  
 Marsh, Kathleen  
 Martens, Eva E.  
 Mason, Carol Y.  
 McCooley, Margaret R.  
 McCormack, Frances M. R.  
 MacDowall, Edward W.  
 McEvoy, Kathryn  
 McGuire, Bernice K.  
 McNulty, Anna C.  
 McNulty, Catherine I.  
 McTygue, Frances E.  
 Molloy, Mary H.  
 Moore, Helen P.  
 Moore, Willard C.  
 Morrey, Margaret  
 Muse, Grace  
 Musgrove, Gertrude  
 Mushroe, H. L.  
 Nagle, Mary E.  
 Nathan, Laura  
 Nelson, Florence A.  
 Nelson, Helen M.  
 Northup, Francis F.  
 Nylin, C. George  
 O'Brien, Mae E.  
 O'Connor, Mary C.  
 O'Connor, Mary Ellen  
 O'Connor, Norcen B.  
 O'Connor, Sabina G.  
 O'Donnell, Mary A.  
 Ohrn, I. Marie  
 O'Leary, Saidie P.  
 Ostrom, Abbie C.  
 Ott, Katherine L.  
 Parker, Harry C.  
 Parkhurst, Grace S.  
 Percy, C. Etzel  
 Pease, Frances C.  
 Pease, F. Maude  
 Phetteplace, Claire A.  
 Phillips, Amy  
 Pils, Meta  
 Place, Walter L.  
 Pollard, Susie B.  
 Potts, Gerald  
 Power, Gertrude C.  
 Power, Josephine R.  
 Primmer, George H.  
 Prior, Betty  
 Purves, Lucy F.  
 Quinn, Margaret  
 Quirk, Mary E.  
 Ramey, Frances P.  
 Redfield, R. H.  
 Seward, Nebr.  
 Barre  
 Shrewsbury  
 Worcester  
 Worcester  
 Geneva, N. Y.  
 Worcester  
 Newark, N. Y.  
 Worcester  
 Worcester  
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 Worcester  
 Worcester  
 Worcester  
 Mansfield, Ohio  
 Brookfield  
 Burlington, N. J.  
 Worcester  
 Bowling Green, Ohio  
 Worcester  
 Oberlin, Ohio  
 Worcester  
 Franklin Park, Ill.  
 Milwaukee, Wis.  
 Dover, N. H.  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Saratoga Springs, N. Y.  
 Worcester  
 Ypsilanti, Mich.  
 Ypsilanti, Mich.  
 New York City  
 Johnson City, Tenn.  
 Pittsfield  
 Charlton  
 Worcester  
 Freeport, N. Y.  
 Fitchburg  
 Worcester  
 Bangor, Me.  
 Worcester  
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 Worcester  
 Spencer  
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 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Shrewsbury  
 Worcester  
 Springfield  
 Los Angeles, Calif.  
 Springfield  
 Springfield  
 Brookfield  
 Waterville, Me.  
 Bloomington, Ill.  
 Cornwall, Conn.  
 Killbuck, N. Y.  
 Shrewsbury  
 Worcester  
 Worcester  
 Duluth, Minn.  
 Baldwinsville  
 Hazardville, Conn.  
 East Douglas  
 Haverhill  
 Amarillo, Texas  
 Oak Park, Ill.

Reed, Esther P.  
 Reed, Grace M.  
 Reichert, Amelia J.  
 Remmert, Marion D.  
 Rettenberg, Irene S.  
 Rhoades, Fanny F.  
 Rich, Jennie W.  
 Richard, Dorothy E.  
 Richards, Edgar E.  
 Robbins, Mary E.  
 Roberts, M. Catherine  
 Rodriguez, Daniel R. A.  
 Rose, Emylee  
 Rotruck, Clarence D.  
 Roy, Raymond S.  
 Rugg, Charles P.  
 Rush, Anne S.  
 St. Amour, Florence  
 Salmon, Edward P.  
 Salmon, Julia A.  
 Savage, Elizabeth  
 Sawyer, Madalene B.  
 Scott, Ruth  
 Shaw, Earl B.  
 Shea, Joseph E.  
 Shipman, Julia M.  
 Sill, Margaret E.  
 Simmons, Anna E.  
 Singleton, Francis J.  
 Slocum, Grace H.  
 Smith, Carroll E.  
 Smith, Harold K.  
 Smith, M. Winifred  
 Smyth, Lillian A.  
 Southworth, Hazel E.  
 Sowden, Ruth V.  
 Spalding, Elizabeth  
 Spalding, Frances  
 Spalding, Sally  
 Spence, Robert  
 Stark, Marion E.  
 Strong, Agnes B. C.  
 Sullivan, Marie  
 Sullivan, Pauline  
 Suriya, Manob  
 Sutherland, Edna F.  
 Talbot, Russell P.  
 Thompson, Elvoreda  
 Toomey, Harry L.  
 Toulson, Margaret H.  
 Traut, Anna C.  
 Underhill, Mary T.  
 Van Tassell, Henrietta F.  
 Virtue, Jessie  
 Vozka, Henry  
 Waldron, Florence I.  
 Walker, Carol T.  
 Wallace, Grace  
 Walters, Anna S.  
 Ward, Mary L.  
 Warren, Marion  
 Wasson, Margaret M.  
 Watson, Barbara  
 Weaver, William R.  
 Webster, Beatrice I.  
 Webster, Edgar H.  
 Whalen, Anne E.  
 White, Edith M.  
 Whitney, Dorothy  
 Wilcox, Ruth H.  
 Wilson, Flora E.  
 Wilson, Gladys I.  
 Wood, Walter D.  
 Wooster, J. Ethel  
 York, G. M.

Grafton  
 Springfield  
 Peakville, N. Y.  
 Warren  
 Cleveland, Ohio  
  
 Hardwick  
 Westboro  
 Alden Station, Pa.  
 Springfield  
 Buffalo, N. Y.  
 Santura, P. R.  
 Leominster  
 Anderson, Ind.  
 New Bedford  
 Worcester  
 Scottsville, N. Y.  
 Worcester  
 Worcester  
 Worcester  
 Worcester  
 Jamaica Plain  
 Trenton, N. J.  
 Monroe, Iowa  
 Worcester  
 South Hadley  
 Ypsilanti, Mich.  
 Fitchburg  
 New Bedford  
 Castine, Me.  
 Batavia, N. Y.  
 Denvers  
 Worcester  
 Millville  
 Phoenix, N. Y.  
 Montclair, N. J.  
 Atlanta, Ga.  
 Atlanta, Ga.  
 Atlanta, Ga.  
 Worcester  
 Greenwich, Conn.  
 Wellington, Ohio  
 Worcester  
 New Orleans, La.  
 Washington, D. C.  
 Roachdale, Ind.  
 Worcester  
 Houlton, Me.  
 Worcester  
 Binghamton, N. Y.  
 New Britain, Conn.  
 Piermont, N. H.  
 Manuet, N. Y.  
 Meadville, Pa.  
 Detroit, Mich.  
 Rome, N. Y.  
 Troy, N.Y.  
 Mineola, N. Y.  
 Walden, N. Y.  
 Worcester  
 Grafton  
 Ilion, N. Y.  
 Washington, D. C.  
 Trenton, N. J.  
 Unadilla, N. Y.  
 Fairhope, Ala.  
 Kingston, N. Y.  
 Arlington, N. J.  
 Norwich, Conn.  
 Rocky Hill, Conn.  
 N. Tonawanda, N. Y.  
 Glens Falls, N. Y.  
 Worcester  
 Bridgeport, Conn.  
 Albany, N. Y.

# EXTENSION STUDENTS

First Semester, 1931-32

Adams, Ellen	Gabriel, Grace E.	Medin, Elin E.
Bacon, Ruth I.	Galvin, Della E.	Mellen, Alice M.
Baldwin, Virginia, H.	Gibbs, Pearl K.	Meyer, Evelyn S.
Bowen, Grace L.	Gilgan, Mary A.	Molloy, Mary
Brady, Katherine V.	Ginn, Addie M.	Moran, Brother Casimir
Brekters, Rasma	Goodspeed, Madge	Moran, Helen G.
Brown, A. Jean	Groden, Anna R.	Moran, Honora A.
Bryant, Nellie J.	Groden, M. Mildred	Nagle, Mary E.
Cahill, Anna C.	Hall, Margaret E.	Nelson, Florence A.
Cahill, Catherine M.	Hammond, Cleon C.	Norris, Marion M.
Callahan, Ellen G.	Hargrove, Gordon H.	O'Brien, Mary E.
Callahan, Winifred C.	Harney, Marion	O'Connor, Deborah
Carey, Helen M.	Harris, Bessie L.	O'Connor, Grace M.
Carlson, G. Virginia	Harwood, Kate M.	O'Connor, Mary E.
Carmody, Catherine A.	Hays, Janet C.	O'Connor, Sabina G.
Cavanaugh, Teresa	Healey, Gertrude F.	O'Grady, Winifred L.
Cheney, Grace E.	Healy, Catherine E.	Ohrn, I. Marie
Childs, Sarah R.	Healy, Katherine R.	Page, Charles W.
Christenson, Mildred E.	Healy, Mary C.	Plunkett, Francis T.
Clark, Esther M.	Higginbottom, Willie R.	Power, Anna M.
Coffey, Grace C.	Holmquist, Harold	Power, Gertrude C.
Cohen, Ruth	Howard, Frances D.	Quinn, Margaret
Cole, May E.	Jaffe, Sophie	Quist, Alice E.
Comtois, Marie O.	Kelliher, Margaret C.	Roach, Philip L.
Cone, Mary M.	Kendrick, Grace A.	Rollins, Ellen H.
Conroy, Mary B.	Kennedy, Irene M.	Salter, Dorothy L.
Converse, Anna M.	Kilton, Dorothy G.	Savage, Elizabeth
Cook, Catherine C.	King, Helen L.	Sayle, Harriet A.
Cook, Oliver R.	Kirby, A. Florence	Sayle, Mary E.
Cunningham, Helen M.	Knox, Frances M.	Scott, Edna M.
Daley, Kathrine M.	Laiviz, Mary E.	Seder, Jeanette R.
Daniels, Clarice A.	Larkin, Alice B.	Shea, Agnes G.
Delaney, Mary F.	Lavin, Leonora M.	Shea, Ella G.
Diggins, Grace L.	Lee, Alice	Shea, Joseph E.
Diggins, Helen B.	Lee, Margaret F.	Sinnott, Alice E.
Dobbins, Alice P.	Leonard, A. Loretta	Spofford, Mary R.
Dodge, Cora J.	Loungway, Lillian A.	Stokes, Brother Matthew
Donallan, Margaret M.	Lynch, Mary V.	Strogoff, Lottie R.
Donnelly, Mary T.	Lyseth, Amy C.	Sugden, Lelia
Doyle, Margaret M.	Mahan, Kathryn E. A.	Sullivan, Marie
Ducey, Agnes F.	Marsh, Kathleen	Sullivan, William J.
Dupree, Ruth I.	Marshall, Nora A.	Talbot, Geraldine C.
Duggan, Helen G.	Mathews, Georgiana P.	Todd, Wilfred E. L.
Early, Mary	McCarthy, Ann E.	Wadleigh, Ruth
Elfstrom, Gunhild A.	McCarthy, Margaret N.	Wall, Roy H.
Elliott, Alice E.	McDonnell, Mary C.	Ward, Mary L.
Ellis, Grace M.	McGuire, Bernice K.	White, Ruth M.
Erikson, Viola B.	McHugh, Catherine M.	Whitlock, Martha L.
Estabrook, Rita C.	McManus, Elizabeth S.	Willard, Ethel L.
Feeley, Katherine R.	McNulty, Anna C.	Willmarth, Madelin A.
Feen, Helen G.	McQuaid, Katharine L.	Wilson, Edith C.
Fisher, Mary	McQueeny, Dorothy E.	Witherspoon, Miriam F.
Fitzgerald, Clara P.	McSheedy, Elsie M.	Woodward, Ruth L.
Fox, Florence E.	McVay, Carolyn	

Enrolled during the Second Semester of 1930-31 and not included in the March 1931 Catalog.

Barbrick, Lavinia A.	Hall, Margaret E.	Power, Gertrude C.
Bibber, Marion E.	Hyde, William A.	Quigley, Helen T.
Booth, Minnie W.	Knowlton, Margaret W.	Riley, Katharine H.
Cohen, Ruth	Larrabee, Ernest A.	Roche, Lillian G.
Cronin, Catherine A.	Leonard, A. Loretta	Speer, Charles A.
Cushman, Edith	Loungway, Lillian A.	Taft, Marion E.
Daley, Kathrine M.	Mathews, Georgiana P.	Tatman, Anna C.
Deignan, Alice E.	McCarthy, Ann E.	Washburn, Alice R.
Dobbins, Alice P.	Merriam, George H.	
Fisher, Mary B.	Miner, Ethel	

## SUMMARY 1931-32

Undergraduates		236
Freshmen	64	
Sophomores	74	
Juniors	63	
Seniors	35	
Graduate Students (61 men, 20 women)		81
Special Students (16 men, 5 women)		21
Extension Students (first semester)(		158
Summer School Students (1931)		297
		<hr/>
Total		793



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# CLARK UNIVERSITY

## The Forty-second Annual Commencement

JUNE 6 1932





# Order of Exercises

Processional: Priest's March from Athalia *Mendelssohn*

Andante Cantabile *Tschaikowsky*

The Bee *Schubert*

String Ensemble: Mr. Aronovitz Soloist

Invocation EDMUND RANDOLPH LAINE Clark '11  
Rector Saint Paul's Episcopal Church  
Stockbridge Massachusetts

Commencement Address EDWIN MARKHAM

Annual Statement of the President

Announcements

The Prentiss Hoyt Prize for Poetry  
The Edmund C Sanford Scholarship

Dances from Henry VIII *German*  
Shepherd's Dance  
Morris Dance

Orchestra

Conferring of Degrees

Benediction

Recessional

Music by  
Clark University Orchestra and String Ensemble  
Edward Aronovitz: Concertmaster of String Ensemble  
Joseph M. Kushner: Concertmaster of Orchestra  
Selma Konold Illingworth: Director

The audience will kindly remain  
standing during the recessional

*Degree conferred as printed*

## Candidates for the Degree of Bachelor of Arts

John Vincent Ablondi  
Kenneth Arthur Battersby  
Solomon Belkin  
Louis Berkovich  
Archie Henry Biron  
Thomas McMaster Carleton  
Sarkis Melkon Donabedian  
Charles Rice Gadaire  
Howard William Galvin  
Irving Arthur Gardner  
Max Gissen\*  
Royal Henry Gladding  
Bernard Israel Goldberg  
Richard Chalmers Hair  
Ernest Monroe Harwood Jr.  
Arthur Raymond Higginbottom\*  
Arthur Randall Knox Jr.  
Morton Glenn Leach  
Edward William MacDowall Jr.

Chester Winfield Malmstead  
Anthony Paul Meleski  
John William Metcalf Jr.  
Arthur Michaels  
John Joseph Moran  
Francis Farrington Northup  
Edward John O'Toole  
George Augustine O'Toole  
James Arthur Phair  
Charles Marc Pomerat  
Leon Rosoff  
Walter Clifford Ross Jr.  
Wilho Mathias Salminen  
Joseph Michael Shea  
Francis Joseph Singleton  
Robert Adams Spence\*  
Vincent Martin Walsh  
Irving Wilner

\*Degree to be awarded on the completion of a small amount of additional work. *Work completed in Summer School + diploma presented.*

### WITH HONOR

Abraham Slopak

Earle Alexander Tompkins

Karl Chism Whitehouse

### WITH HIGH HONOR

Axel Verner Holmgren

## Candidates for the Degree of Master of Arts

### *Chemistry*

Wilfred Rutman Arick  
Marshall Gorham Clark  
Guy Scott Herrick  
Philip Alfred Klinglof  
Martin Krutzky  
Milton Samuel Sheftel  
Elmer Lincoln Swett  
Harold Davis Weymouth  
*Economics and Sociology*  
Armand Joseph Brissette Jr.  
John Tougas Croteau  
Ada Sophie Glickman  
Charles Edwin Houston  
Walter Leonard Johnson

### *Geography*

Phil Edwards Church  
Celia Collins Kingman  
Minnie Ethel Lemaire  
George Etzel Pearcy  
*History and International Relations*  
Michael John Ambrose  
Antonio Julio Colorado  
John Arthur Dearth  
John Ernest Edwards  
Jesse Mackenzie MacKnight Jr.  
Eva Anna Poulin  
Dorothy Elizabeth Richard  
Stephen Thomas Riley  
Louis Edward Shapiro  
Idele Louise Wilson

### *Psychology*

Claude Cassell Neet  
Pearl Seckler

## Candidates for Degree of Doctor of Philosophy

### *Economics and Sociology*

Oreen Morris Ruedi

### *Geography*

Esther Sanfreida Anderson

### *History and International Relations*

Gerald Meringer Kendall

### *Psychology*

Clarence Virginus Hudgins

### THE PRENTISS HOYT PRIZE IN POETRY

Otis C. Ferguson '34, for the poem "I Sing Prophetic"

### EDMUND C SANFORD SCHOLARSHIP

Perry Blackmer Hall

## Annual Collegiate Honors

### SENIORS

#### *Second Honors*

Axel Verner Holmgren

Joseph Michael Shea

Karl Chism Whitehouse

### JUNIORS

#### *Second Honors*

Herman Beigelman

Sydney Jaffe

Charles Bernard Kabaker

Toivo Matthews Laakso

Ilmari Fritiof Salminen

James Masefield Stevens

### SOPHOMORES

#### *Second Honors*

Boynton Graham

Toivo David Rosvall

William Franklin Russell

### FRESHMEN

#### *First Honors*

Burton Everett Clark

Vitold Sukaskas

#### *Second Honors*

Walter Scott Allan

Roland Axel Erickson

David Marshal Gould

David Russell Porter

Benj. Silver

# CLARK UNIVERSITY

## Final Assembly of the 1932 Summer School

August 4, 8:30 p. m.

I. Jazz and Minuet ..... *Ruth Giorloff*

### A Comedy in One Act

#### CAST

(In order of appearance)

Mrs. Van Hayden	.....	Eleanor Lane Peabody
Nettie	}	Anne Ellis Rotruck
Lucy		
Eleanor Prudence Van Hayden	}	Virginia Cutting
Prudence Van Hayden		
Milord Deveraux	.....	Richard G. O'Neil
Richard Townsend	}	Raymond F. Cardinal
Robert Trowbridge		

SCENE—Living room of the Van Hayden apartment.

TIME—Eight P. M. Now and one hundred and fifty years ago.

Stage Manager ..... Roger Bliven

Music: "Amaryllis"

Trio: Violin, Bessie Rosenbaum  
Flute, Robert S. Melville  
Clarinet, Jordan Sandman

II. Conferring of Degrees ..... Francis H. Dewey

Vice-President of the Board of Trustees

#### Bachelor of Education

Grace Lillian Bowen	Helen Louise King
Ellen Genevieve Callahan	Mary Veronica Lynch
Winifred Clare Callahan*	Margaret Nora McCarthy
Mae Helen Clifford	Mary Cecelia McDonnell
May Elizabeth Cole	Bernice Katherine McGuire
Anna Brigit Collins	Abbie Catherine Ostrom
Frances Elizabeth Craffey	Elizabeth Agnes Savage
Grace Lidwin Diggins	Ruth Virtine Sowden
Helen Bernard Diggins	Harry Leslie Toomey
Rita Clothilde Estabrook	Carol Terpening Walker
Mary Catherine Healy	Hilda Grace Wallace

\*Degree to be awarded on the completion of a small amount of additional work.

#### Master of Arts

Geography

Myrtle Cash

George Robert Means

Meta Henrietta Pils

Mary Catherine Roberts

Anna Elizabeth Scharf









*Office copy sent*

# Clark University Bulletin

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NUMBER 92

MARCH, 1932

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## The Summer School 1932

June 27—August 5

The Bulletin is published in January, February, March, April, May, June, October, November, and December

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# Schedule of Lecture and Recitation Hours

INSTRUCTOR	8	9	10	11	12	AFTERNOON
BRANDENBURG			Economics 2	Economics *5		
BURNHAM				Geography 191	Geography 190	
BYE	History 151		History 16			History 11§
CORFIELD		Geography 185			Geography 180	Geography 11φ
HUNTINGTON			Geography *25P		Geography 15+	Geography *25P 15*
ILLINGWORTH		English 5	English 4	English 2		
JONES		Geography *24		Geography 14		Geography *360
LEE + Jordan		History *211		History *22		
LITTLE	Geology 1					
RIDGLEY	Geography *28	Geography 181				
VAN CLEEF	Geography 12		Geography *285			Geography *37
GEOGRAPHY STAFF						Geography *30†

NOTE: All the above courses are Summer School courses. The symbol "§" before the numeral which distinguishes courses in Summer School from those given during the regular academic year is omitted. \*Courses suitable for graduate credit. †Wednesdays at 3. P Mondays, Wednesdays and Fridays; also Mondays at 2. §Friday afternoons and Saturdays. +Mondays, Wednesdays and Fridays; also Tuesdays at 2. φAll day on Saturdays.

1 not half of session  
2 yes " " "

*subscribed*

## Calendar

- June 27, Monday, beginning 9 A. M. Registration Day.  
12 M. Opening Assembly.  
8-10 P. M. Reception to members of the Summer School.
- June 28, Tuesday, 8 A. M. Lectures and recitations begin.
- June 30, Thursday, 8:30 P. M. Open lecture. "Economics for Today." Dr. Samuel J. Brandenburg.
- July 7, Thursday, 8:30 P. M. Open lecture. "Camels and Kibitkas in Western China." Illustrated. Dr. Ellsworth Huntington.
- July 14, Thursday, 8:30 P. M. Open lecture. "The Art of our Ancient Ancestors." Illustrated. Dr. Homer P. Little.
- July 21, Thursday, 8:30 P. M. Open lecture. "Travels in South America." Illustrated. Dr. Clarence F. Jones.
- July 28, Thursday, 8:30 P. M. Open lecture. "Travels in Tartary." Illustrated. Dr. George B. Cressey, Professor of Geography, Syracuse University.
- Aug. 4, Thursday, 8:30 P. M. Final Assembly. Conferring of Degrees.
- Aug. 5, Friday. Summer session closes.
- Aug. 6, Saturday, 8 A. M. Washington and Middle West Field Trip begins.
- Aug. 13, Saturday, 8 A. M. Appalachian Highlands Field Trip begins.
- Aug. 26, Friday. Field Trips end.

All meetings will be held in the Jonas G. Clark Auditorium unless announcement to the contrary is given.

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### COMMITTEE ON THE SUMMER SCHOOL

THE PRESIDENT OF THE UNIVERSITY

THE DIRECTOR OF THE SUMMER SCHOOL

MESSRS. BLAKESLEE, MELVILLE, BRANDENBURG



*Henry Donaldson Jordan*  
*Assoc. Prof. of Engl. Hist. C.U.*

*History*

## Officers of Instruction and Administration

WALLACE WALTER ATWOOD, PH.D. Geography  
B.S., University of Chicago, 1897; Ph.D., 1903. President of Clark University and Director of the Graduate School of Geography.

DOUGLAS CLAY RIDGLEY, PH.D. Geography  
A.B., Indiana University, 1893; M.S., University of Chicago, 1922; Ph.D., Clark University, 1925. Director of the Summer School and Professor of Geography in Education, Clark University.

CLARENCE FIELDEN JONES, PH.D. Geography  
B.S., University of Chicago, 1917; Ph.D., 1923. Professor of Economic Geography, Clark University.

ELLSWORTH HUNTINGTON, PH.D. Geography  
A.B., Beloit, 1897; A.M., Harvard, 1902; Ph.D., Yale, 1909. Research Associate in Geography, Yale University.

EUGENE VAN CLEEF, PH.D. Climatology and Geography  
B.S., University of Chicago, 1908; Ph.D., Clark University, 1926. Professor of Geography and Chairman, Foreign Commerce Division, Ohio State University.

GEORGE SIBLEY CORFIELD, A.M. Geography  
B.Ed., Clark University, 1930; A.M., 1931. Instructor in Geography, State Normal School, Salem, Massachusetts.

GUY H. BURNHAM, A.M. Cartography  
A.B., Clark University, 1916; A.M., 1922. Cartographer, Clark University.

HOMER PAYSON LITTLE, PH.D. Geology  
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910. Dean of the College and Professor of Geology, Clark University.

DWIGHT ERWIN LEE, PH.D. History  
A.B., University of Rochester, 1921; A.M., 1926, Ph.D., 1928, Harvard University. Associate Professor of Modern European History, Clark University.

EDGAR C. BYE, A.M. History  
A.B., Haverford College, 1915; A.M., University of Pennsylvania, 1922. Professor of History, State Teachers College, Montclair, N. J.

SAMUEL J. BRANDENBURG, PH.D. Economics  
A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922. Professor of Economics and Sociology, Clark University.

ROBERT STANLEY ILLINGWORTH, A.M. English and Dramatics  
A.B., Clark College, 1917; Student, American Academy of Dramatics 1917-18; A.M., Lafayette College, 1926. Associate Professor of English, Clark University.

CAREY EYSTER MELVILLE Registrar

FLORENCE CHANDLER Bursar

1 1st half of session  
[4]  
2 2nd half of session

# The Summer School at Clark University

Clark University is now laying special emphasis on fields of study that lead to a better understanding of national and international problems. Geography, Economics, and History and International Relations are of fundamental importance to all students interested in the solution of the larger problems now before the world.

These studies are essential in the training of teachers who recognize as their goal the development of the highest type of citizenship. A knowledge of the geographic environment and its influence upon human affairs, a knowledge of the history of peoples and of how they make a living, and a knowledge of economic principles and their application to national and world problems should help to dissipate fears and suspicions and lead in the end to a better understanding among the nations of the world.

Clark University, with its extensive equipment in library and map resources, offers to its Summer School students the full use of all facilities available for the undergraduate and the graduate divisions of the University during the academic year. The concentration of the Summer School courses in a few closely related departments of study—Geography, Geology, History, Economics, and English—results in a student body of moderate size with ample opportunity for ready use of the resources of the University in these departments.

The work of the Summer School is intensive. Courses meet five times a week. Three courses are considered a full program. Many students will find it advantageous to concentrate all their energies on the work of two courses or even on a single course.

## LOCATION AND BUILDINGS

Clark University occupies a tract of ground lying between Main and Woodland and Maywood and Downing Streets in the city of Worcester, situated about a mile and a quarter from the City Hall. Trolley cars from the Union Station either run directly past the University or make connections at the City Hall with cars running south on Main Street which pass the University. Taxicab service is available at moderate price.

The office of the Summer School is located in the Jonas G. Clark Hall, which contains also the general offices of the University. Most of the exercises of the Summer School are held in this building. The office of the President of the University and the Geography work-room are in the Geography Building where some classes are held.

In the Science Building are located the lecture room and laboratories of the departments of Physics and Chemistry.

All the classroom, library, and laboratory facilities of the University, so far as they pertain to the subjects of instruction offered, are at the disposal of students of the Summer School.

### THE LIBRARY

The Library of the University was provided with a generous endowment by the founder of the Institution, and affords favorable opportunities for study and research. The Library now owns more than 140,000 bound volumes and pamphlets, and the Reading Room receives more than 500 journals. All the privileges of the Library are open to all members of the University, and each member has direct access to every book and journal.

In addition to the library facilities provided by the University, students may avail themselves of the privileges of other excellent libraries in the city. The Worcester Public Library contains some 245,000 volumes and makes accessible to the public about 600 newspapers and magazines. The educational books in the circulating department of the Public Library have been grouped together in a corner of the Delivery Room, where they may be inspected by persons interested. Teachers' magazines, with other interesting pedagogical material, may be consulted in the Children's Department and in the General Magazine Reading Room. The Library of the American Antiquarian Society, housed in the national headquarters of the Society in Worcester, contains more than 500,000 volumes and pamphlets. In addition to the Society's valuable manuscripts of the Colonial period, it has an unequaled collection of books printed in America in the early period, and of American newspapers from 1660 to 1860.

### ADMISSION TO THE SUMMER SCHOOL

Graduates of colleges, technical schools, normal schools, or secondary schools, college students, and teachers in schools of any grade are admitted as a matter of course upon application. Other applicants are admitted upon approval of their qualification for the work which they desire to do.

Students in the College Division of Clark University who desire to have work done in the Summer School credited toward an A.B. degree are required to obtain the approval of the College Board.

### REGISTRATION

Persons who desire to enter the Summer School should detach and fill out the application form which is printed at the end of this

BULLETIN and forward it, with the registration fee of two dollars, to the Registrar of Clark University. The amount of the registration fee will be deducted from the tuition fee when the latter is paid. Checks should be made payable to Clark University.

The registration of all students in all courses should be completed on June 27. To this end students should, as far as possible, determine before the opening of the session, through personal conference or correspondence with the Director, Registrar, or the various instructors, the courses in which they expect to register.

Formal registration will take place between 9 A. M. and noon on Monday, June 27, in Jonas G. Clark Hall. All instructors will be on hand for consultation and for signing registration cards between these hours. The opening assembly of the Summer School will be held in the Auditorium, June 27, at 12 o'clock. Class work will begin promptly on Tuesday morning.

### CREDIT FOR WORK DONE

Some of the courses of instruction in the Summer School are of college grade, others are strictly graduate courses, and many are equally suitable for advanced undergraduates or graduate students.

Unless otherwise announced, each course is designed to cover the equivalent of two semester hours of credit, and is so credited when applied toward a degree in Clark University. Three courses constitute a full schedule; a maximum of four courses may be taken, but only with the consent of the Director.

A certificate, with a statement of courses taken and grades received will be furnished at the close of the session to all students who desire it. In order to obtain a prompt report, students should leave a stamped and addressed envelope at the Registrar's office during the last week of the session.

Summer School courses may be applied toward the fulfillment of the requirements for the degree of Bachelor of Arts, Bachelor of Education, or Master of Arts, *subject to the general regulations of the University.*

### TUITION AND FEES

Students taking two or more courses pay a fee of thirty-five dollars; those who desire to take but one course may do so upon payment of a fee of twenty dollars, which entitles them also to all special privileges of the Summer School. The same charge is made whether students register as auditors or for credit. For a statement of fees for Field Trips conducted by the Summer School, see pages 25 to 28.



Students registering in the Summer School who have not previously been enrolled in Clark University are required to pay a matriculation fee of five dollars. The fee is paid only once and is not returnable.

Tuition may be paid at any time before 5 p. m. of Friday, July 1. Checks should be made payable to Clark University.

### BOARD AND ROOMS

The rooms in the college dormitory, Estabrook Hall, will be available for women students during the Summer School. These rooms are exceedingly attractive and are furnished with everything necessary *except bedding*. The Hall is very conveniently located. A number of two-room suites for two persons rent for \$4 per week, per occupant. One person may secure a two-room suite for \$7 per week. A few large rooms, each suitable for two persons, are rented at \$3 per week, per occupant; for one person, \$5 per week. Bedding will be provided for an additional charge of \$1.50 per person, per week. Early correspondence is invited. Good rooms may be had in private homes near the University. The Dining Room is located in Estabrook Hall and table board will be provided for members of the Summer School at \$8 per week.

The Faculty House, on Woodland Street across from the University, has a few rooms available for Summer School students.

### THE BACHELOR OF ARTS DEGREE

Students who have been admitted to the Undergraduate Department of the University may secure not more than six semester hours of credit toward the Bachelor of Arts degree in any one summer session on condition that permission be secured in advance from the College Board and that programs of study be approved by the Registrar.

### THE BACHELOR OF EDUCATION DEGREE

The degree of Bachelor of Education is offered primarily to teachers, both men and women. A two-year Normal School course or its equivalent is a prerequisite for admission to candidacy and a year of teaching experience is a prerequisite for the degree.

Candidates for this degree may earn the necessary residence credit by attendance at the Summer School or by enrolling in extension courses offered at the University during the regular academic year, or in such regular university courses as may be open to them.

*Women who are candidates for this degree will usually not find it possible to secure a full program of courses during the regular academic year.*



A normal program for Summer School students consists of three courses, each yielding two semester hours of credit. Two extension courses, each yielding two semester hours of credit, constitute a normal program for teachers in service. Credit toward the degree may also be earned through the Home Study Department and in connection with the field trips offered by the Summer School, but credit so earned may not be used to reduce the minimum residence requirement of 30 semester hours.

Courses (designated as "Extension Courses") are offered during the regular academic year on Saturday morning and on certain afternoons for the convenience of candidates for this degree who are teaching in or near Worcester. By taking advantage of these courses it is possible for a teacher to complete in four years the equivalent of a year of study in residence.

The general administration of regulations applying to the degree of Bachelor of Education is lodged with the Committee on Extension Courses and Special Students, for which the University Registrar acts as the administrative officer in dealing with students. The regulations applying to this degree are summarized in the following paragraphs.

1. ADMISSION REQUIREMENTS. The completion of a standard two-year course in a Massachusetts State Normal School, or the reasonable equivalent of such a course.

2. REQUIREMENTS FOR THE DEGREE:

- a. At least one year's teaching experience.
- b. At least 30 semester hours of credit earned *in residence* at Clark University.
- c. 120 semester hours of college credit, including advanced standing based upon the admission requirements.
- d. Requirements in particular subjects:
  - (1) Six semester hours in Psychology or Education taken after the completion of the two-year Normal School course.
  - (2) Six semester hours of Laboratory Science taken after the completion of the two-year Normal School course.
  - (3) Ten semester hours of English, which may be taken in whole or in part in the Normal School course.
  - (4) Ten semester hours in foreign language, which may be taken in whole or in part in the Normal School course.
  - (5) Twelve semester hours of Economics, Geography, Government, History, or Sociology, at least six of which must be taken after the completion of the two-year Normal School course.

3. **STANDARD OF SCHOLARSHIP.** The same standard of scholarship is required of candidates for this degree as for the degree of Bachelor of Arts.

4. **ADVANCED STANDING:**

- a. Credit of 54 semester hours will normally be given for the standard two-year course in a Massachusetts State Normal School. This may be reduced in special cases.
- b. Credit will be allowed for work done at other Universities, Colleges, or Normal Schools, subject to reasonable regulations.
- c. Not more than 30 semester hours credit may be allowed for home study or extension courses other than the extension courses offered by Clark University expressly for candidates for this degree. The acceptance of any work of this type is subject to the approval of the Registrar.

5. **LAPSE OF CANDIDACY.** By vote of the committee on the degree of Bachelor of Education candidacy terminates automatically whenever for a period of two years or more a candidate has failed to complete any courses in Clark University yielding credit toward the degree. A candidacy terminated under this rule may be renewed by action of the committee, and such renewal may involve a revision of allowances previously made, both in respect to total credit, and requirements in particular subjects.

Inquiries regarding the degree of Bachelor of Education should be addressed to the Registrar of the University.

**SPECIAL COURSES FOR TEACHERS.** In keeping with its long established policy, Clark University offers a series of Extension Courses designed both in respect to content and time of meeting for teachers in the public schools of Worcester and the surrounding region. These courses are also open to the general public. When occasion arises the subject of aims and methods of teaching is treated in some of these extension courses.

## THE MASTER OF ARTS DEGREE

The Summer School provides a sequence of graduate courses in successive summers whereby students who are formally admitted to the Graduate Division of the University may secure the degree of Master of Arts by devoting themselves exclusively to graduate study during a minimum period of one semester of the regular academic year, and three summer sessions, or their equivalent in field trips or other residence work, preparing an acceptable thesis, and passing a satisfactory oral examination. Graduate credit may be obtained only in those courses designated by an asterisk (\*) in the announcement of courses in this BULLETIN. *All programs of work to*

*be applied toward the requirements for the degree of Master of Arts must be approved in advance by the major department concerned.*

Early correspondence is requested by all who wish to begin work for graduate credit.

## OUTSIDE ACTIVITIES

It is the intention of the Summer School not only to provide a daily program of serious work, but to afford the students and instructors opportunities for relaxation and enjoyment as well. Among these are courses of public lectures, entertainments, and excursions to places of scientific or historic interest. The working schedule has been planned so that those who desire to take advantage of the excursions or to visit Boston or other neighboring cities at week-ends may do so without detriment to their regular work.

The University Gymnasium and the Maywood Street tennis courts provide opportunity for both indoor and outdoor exercise. The summer climate of Worcester is pleasant; periods of excessive heat are rare; and Lake Quinsigamond, at the edge of the city and easily accessible by trolley, offers excellent facilities for boating and canoeing. Coes Pond, within easy walking distance of the University, is a favorite resort of summer bathers.

## EXCURSIONS

Saturday and afternoon excursions conducted by members of the Summer School staff have been instructive and enjoyable features of past sessions. Some of the points visited have been Mt. Wachusett; Mt. Monadnock; the Connecticut valley including Mt. Tom; Plymouth; Provincetown; Boston, Salem and Marblehead, the Wayside Inn; Lexington and Concord; Cohasset, famous for its carillon.

In previous summers, excursions were made to some of Worcester's industrial plants, including the Crompton and Knowles Loom Works, the American Steel and Wire Company's South Works, the Whittall Rug Factory and the Norton Company.

For the coming session trips will be planned to suit the interests of the student body.

## THE SUMMER SCHOOL ASSOCIATION

The Summer School Association was organized by the students at the first session of the Summer School in 1921. The Association promotes the social activities of the school during the summer session and holds an annual reunion during the year. Every student is urged to participate in the activities of the Association as they develop during the term.

## NEW YORK STATE CLUB

In 1928 the members of the Summer School from New York State organized the New York Club of Clark University. The Club will hold its first meeting of the summer session of 1932 at 2 P. M., Monday, June 27, in Room 120, first floor of Jonas G. Clark Hall. All members of the Summer School from New York State are requested to be present. The interest of New York teachers in their new state course of study in geography has led to the offering of a regular course this summer based directly on the New York State Course of Study. The course is offered by Mr. George S. Corfield who has had ten years of experience as teacher and principal in New York State schools. He will aid in organizing the New York State Club.

## SUMMER TOURIST RAILROAD RATES

Summer Tourist Railroad Rates from places west of Chicago are in effect from June to October. These rates offer a substantial reduction in transportation costs whether the tickets are for round trip rates over the same railroads or for return by a different route. Round trip tickets are usually made out for Marblehead, Massachusetts. Stop-over privileges are allowed at Worcester. The trip to Marblehead and return to Worcester may be made during the Summer Session. Inquiry should be made at local ticket offices well in advance of the date of starting.

## THE SUMMER SCHOOL ROSTER

The names of students of the Summer School, with their home addresses, will be found in the General Catalogue of the following academic year. Students who desire a list should write to the University after February 1, of the following year.



# DEPARTMENT ANNOUNCEMENTS

*The right is reserved to withdraw any course listed in the event of of a registration too small to justify its being given.*

*Courses marked with an asterisk (\*) are primarily for advanced students.*

## GEOGRAPHY

The courses in geography announced here include undergraduate and graduate courses in the several phases of the subject. Certain fundamental courses are offered every summer. Others are given every other year or occasionally. At any summer session, however, courses not regularly planned for that summer may be given if there is a demand and if a reasonably large class is assured.

Students whose assignments involve the preparation of maps or who wish to practice map-making will appreciate the opportunity for special help by the cartographer, Mr. G. H. Burnham, in the geography workroom.

**\*SS28. Geography in Education for Special Teachers.** This course is designed to meet the needs of geography teachers who wish to work specifically on their individual problems. Special topics will be developed and the results presented in class. Members of the class may develop full details for the presentation of a course in geography for a single year, or for courses for elementary school, junior high school, senior high school, normal school, or college. Lesson plans and topics of individual interest may be developed in detail. A wide variety of problems gives interesting side lights to many phases of the geography curriculum of value to all. The library and geography workroom are well equipped for the pursuit of this course. This course gives opportunity for teachers to work with concentration on their special problems of geography teaching in any grade for the ensuing school year. A few local field lessons will be given, and opportunity will be offered for the examination of printed matter and museum specimens available for the course in "Visual Aids in Teaching."

*Daily, except Saturday, at 8.*

DR. RIDGLEY

**SS181. The Teaching of Geography.** A discussion of the scope and purpose of geography. A comparative study of recent courses in geography. Methods of presentation suitable for elementary school and junior high school, including the journey lesson, the problem method, projects in geography, and the type study method. Standard equipment for geography teaching. Local field lessons and



their application to the various grades. Wide library reading. Consideration of the effective use of pictures, maps, and printed matter in textbooks and reference books. A comparative study of available tests in geography.

The library contains an extensive collection of recent textbooks and workbooks for teachers and pupils, and the geography workroom offers exceptional opportunities for the making of maps for classroom use. Much of the library reading may be selected with direct reference to the needs of next school year. Opportunity will be given to examine the printed matter and museum specimens available for the course in "Visual Aids in Teaching."

*Daily, except Saturday, at 9.*

DR. RIDGLEY

**\*SS24. South America.** A geographic survey of South America; the important physiographic regions and types of climates; vegetation; transportation; the people; the major problems of the South American Republics; the geographic regions of the continent; the future of South America.

*Daily, except Saturday, at 9.*

DR. JONES

**SS14. Economic Geography.** A study of the relations of physiographic and economic conditions to the production and trade in selected important agricultural, forest, mineral, and manufactured products of the world. Special emphasis will be placed upon the regional aspect of the commodities; special study will be made of the effects of cartels and valorization on the production of commodities such as nitrates, coffee, rubber, wheat, and sugar; the essentials of manufacturing; the manufacturing regions of the world.

*Daily, except Saturday, at 11.*

DR. JONES

**\*SS25. Social Geography.** A course dealing with the geographical relationships of human progress. It begins with a study of maps showing the distribution of various indices of social progress. These include education, accuracy of census returns, health, sanitation, public welfare, crime, political stability, public utilities, financial control of production and marketing, facilities for transportation and communication, urbanization, migration, real income, the use of machinery, and the use of other new ideas and institutions. Attention is first focussed on the worldwide variations in these indices, and then on their local variations. In doing this much attention is paid to methods of mapping in order to see how the salient features can be most clearly presented. The next step is to compare the maps of social indices with another series of maps illustrating the various features of geographical environment and race.

The aim of the course is to enable the students to draw their own conclusions as to two great questions. First, how much of the present distribution of social conditions is due to biological inheritance and how much to geographical environment? Second, how far are the results of inheritance and geographical environment modified by a historical development controlled by causes whose geographical distribution is more or less due to accident? In other words what is the true relationship between the commonly accepted viewpoint of geographers on the one hand and of anthropologists, historians, economists and others on the other hand?

A written paper illustrated by original maps is required of each student.

*Mondays, Wednesdays, and Fridays at 10; also Mondays at 2.*

DR. HUNTINGTON

**SS15. Human Geography.** An introductory course designed to give the student a general idea of the relations between man's occupations, activities, and biological characteristics on the one hand, and the geographical environment on the other hand. After discussing a few concrete illustrations of the net effect of several diverse regions upon human conditions, the course takes up the various factors of physical environment individually. The earth's form and motions, the distribution of land and water, the relief of the lands, soils, mineral resources, climate, plants, and animals, as well as man's own modification of the environment all come in for separate treatment. Their relations to occupations, modes of life, racial qualities, transportation, and political conditions are especially stressed. In conclusion the course again returns to specific regional examples. What has been learned about the inter-relation of man and his environment is now applied to such problems as a comparison of the climatic zones, the anthropogeography of islands, the dominance of regions of cyclonic storms, and the changing location of the highest types of civilization.

*Mondays, Wednesdays, and Fridays at 12; also Tuesdays at 2.*

DR. HUNTINGTON

**\*SS285. Geography of Europe.** A regional analysis of the political and economic development of the countries of Europe in the light of the physical characteristics of the continent. The course emphasizes especially the geographic bases of the local and international problems which Europe faces today. It constitutes a cultural as well as an educational approach to an intelligent understanding of European thought.

*Daily, except Saturday, at 10.*

DR. VAN CLEEF

**SS12. Weather, Climate, and Man.** This course deals first with the fundamental weather elements which may be observed from day to day, weather forecasting, and a study of the significance of weather phenomena in the geographic environment. The climates of the earth are then surveyed and interpreted. The sensitiveness of man to climate is given careful consideration.

No special training in meteorology, physics, or mathematics is required, although an acquaintance with any one of these fields will be helpful. The course is designed to be practical for the teacher of geography and yet to afford a basis for more advanced investigation by any student desiring to specialize in this field.

*Daily, except Saturday, at 8.*

DR. VAN CLEEF

**SS180. Visual Aids in Teaching.** The purpose of this course is to assist teachers in making their work more effective and lasting by the proper use of visual aids. Laboratory work includes the preparation of materials for classroom use, such as exhibits, posters, booklets, picture collections, charts, and graphs. Particular emphasis will be laid on the educational possibilities of field trips. Collection, classification and study of printed material available on topics related to geography, history, English, general science, and home economics will be carried on. The laboratory work will be adapted to the individual needs of the students. The work will include discussion of motion pictures and still films. Manipulation of the lantern slides and stereographs to obtain the best results will be demonstrated and practiced by members of the class. Individual projects may be developed by students. The building of a school museum and the making of lantern slides will receive attention. This course through laboratory work and prescribed reading will bring out the influence of visual aids in achieving the most generally accepted aims of sound teaching practices. Mid-week local field trips. Laboratory work daily at convenience.

*Daily, except Saturday, at 12.*

MR. CORFIELD

**SS185. A Survey of the New Course of Study in Geography for New York State.** This course is especially designed to assist teachers and supervisors of geography in planning systematic development of the New York State Course of Study in Geography. Both subject matter and method will receive proper attention. Some of the topics presented are: the nature of modern geography, the objectives of modern geography, one-cycle versus the two-cycle plan. Members of the class are expected to participate in a mid-week local field trip. A survey will be made of the New York State Course of





## SPECIAL NOTICE CONCERNING SATURDAY

### FIELD TRIPS

The History and Geography Saturday Field Trips will be combined with Mr. Bye and Mr. Corfield in charge. The four trips outlined in the Summer School Bulletin for History SS11 will be followed. These trips will be given on the second, third, fourth, and fifth Saturdays of the session, and the same credit as indicated in the Summer School Bulletin will be earned.

Any who are not desiring credit for the trips may join the party.

The first trip will be to Plymouth, Saturday, July 9, leaving Woodland Street entrance at 7 A.M.

Please make definite enrollment for the four trips, or for any of the four at once. See Mr. Bye, Mr. Corfield, Mr. Ridgley, or report to the Summer School office, Room 101 of the Main Building.

Mr. Bye will meet all enrolled for history credit 2 - 4 P.M. Friday, July 8.

Please lend your cooperation by acting promptly, if you are interested.

Douglas C. Ridgley  
Director of the Summer School



Study as a whole, noting the objectives, outcomes, and skills, grade by grade. Each student, either as an individual or as a member of a committee, will have opportunity to develop fully and completely one or more units of work. These units may include work from different grades, a particular grade, or may resolve itself into a continent, country, or regional study. Wide library reading is expected. Each student expecting to take this course should bring the textbooks in use in his school system, and the New York State Syllabus for Geography, grades 3, 4, 5, 6, and 7.

*Daily, except Saturday, at 9.*

MR. CORFIELD

SS11. **Field Work in Geography.** This course provides a reconnaissance study of several representative regions of New England. The class will devote all day Saturday to work in the field through motor coach trips. Students will receive a credit of one semester hour for satisfactory completion of the course. Reports of each study are required of each student wishing credit. Transportation costs for regularly enrolled students will be \$12.00. Single trips \$3.50 per person. These field studies supplement all classroom courses in geography in a vital manner, and are open to all students.

*Trips  
subscribed  
with trips  
of \$12.00  
of \$3.50  
enroll-  
ment*

**Field Study No. 1. New England Upland of Massachusetts.** Land utilization of an upland section, as related to certain geographic factors. Study of flora and fauna of the climax forest at Petersham.

*See  
p. 22*

**Field Study No. 2. Blackstone Valley and Narragansett Bay Region.** Study will include the industrial conurbation of the lower Blackstone Valley, Narragansett Bay region, and the resort development about Newport, Rhode Island. Contrasts with Field Study No. 1.

**Field Study No. 3. The Port of Boston.** Study of the urban geography of Boston and the significant points connected with the harbor and port. Commonwealth Pier, Fish Pier, and Charlestown Navy Yard will be points of interest visited.

**Field Study No. 4. Mt. Monadnock.** The significant changes in vegetation and climate as result of altitude. Evidences of glacial activity and peneplains.

*All day Saturday.*

MR. CORFIELD

SS190. **Mathematical Geography.** A study of the earth's relations to the sun, moon, and other heavenly bodies and their influences on human life. The size and shape of the earth, its rotation and revolution, the seasons, changing length of day and night, latitude,

longitude, time, and the calendar receive attention. Practical applications of these subjects to land surveying and map making, navigation, aviation, railroad, transportation, and radio communication will be discussed from time to time. Methods of presentation suitable to junior high school pupils. For teachers who wish to obtain content and method for presenting effectively those phases of mathematical geography essential to a clear understanding of the human aspects of geography.

*Daily, except Saturday, at 12.*

MR. BURNHAM

**SS191. Graphics and Cartography.** This course will deal with the construction, interpretation and use of graphs and maps. It is designed not only to help teachers understand such problems but also to put them into practice in their classrooms. With this aim in mind, the principal types of graphs will be drawn and interpreted as will some of the more familiar map projections. Methods of making relief, rainfall, population and other types of maps will be discussed and illustrated by samples from the Clark map collection.

*Daily, except Saturday, at 11.*

MR. BURNHAM

**\*SS30. Seminar in Geography.** A report and discussion seminar for advanced students in geography; reports on research problems and theses; attendance is required of students working on theses or registered for research in any geography course. Students registering for seminar should consult the director of the seminar at the time of registration; students should have problems ready for announcement at the first meeting.

*Wednesday, at 3.*

THE GEOGRAPHY STAFF

**\*SS360. Research in Regional Geography or Economic Geography.** For properly qualified students.

DR. JONES

**\*SS37. Research in Geography of Europe or Foreign Trade.** For properly qualified students.

DR. VAN CLEEF

Teachers and students of geography who wish a broader knowledge of the history and international relations of Europe or of the economic history of the United States will find interest in the following courses in History and Economics.

**\*SS211. History of Europe in the Nineteenth Century.**

DR. LEE

**\*SS22. European International Relations, 1870-1919.**

DR. LEE

**\*SS5. Economic History of Western Europe**

DR. BRANDENBURG

*For Field Trips see pages 25 to 28.*

## HOME STUDY COURSES IN GEOGRAPHY

Clark University is now offering Home Study Courses for the benefit of those interested in the study and in the teaching of geography. These courses may be begun at any time and pursued as rapidly as opportunity for study affords. Many teachers pursue these home study courses during the school year while teaching. Other teachers who have not found convenient opportunity to attend summer school have made rapid progress in home study work while at home during the summer vacation. Each course carries three semester hours of college credit toward the Bachelor's degree at Clark University. The tuition fee for each course is \$18. As soon as the tuition fee is received the complete set of lessons is forwarded. Sample lessons of one or two courses will be sent on request. Address: Clark University, Home Study Department, Worcester, Massachusetts.

The following Home Study Courses are now ready:

### COURSES ON THE TEACHING OF GEOGRAPHY

1. The Teaching of Geography in the Elementary School.
  - 1a. The Teaching of Geography Based on the New York State Syllabus, Grades 3, 4, 5, and 6.
  2. The Teaching of Home Geography and World as a Whole.
    - 2a. The Teaching of Third Grade Geography of the New York State Syllabus.
  3. The Teaching of North America.
  4. The Teaching of South America, Europe, and Asia.
  5. The Teaching of Geographic Factors and the United States in its World Relations.
    - 5a. Visual Aids in Teaching.

### ACADEMIC COURSES IN GEOGRAPHY

6. Industrial and Commercial Geography.
7. Geography of North America.
8. Geography of South America.
9. Geography of Europe.
10. Home Study Course for European Travel.
11. Geography of the Eastern Continents.
12. The Physical Geography of the Lands.
13. Fundamentals of Climate.
14. Climates of the World.
15. Climatology of the United States.
16. Mathematical Geography.
17. Graphics and Cartography.
18. Special Studies in Geography.

Special attention of teachers and students who cannot attend Summer School is called to the opportunity offered by these home study courses to secure the same amount of college credit through home study courses as through the regular summer school period. Two home study courses give the same amount of college credit as the regular program of the summer school session. By enrolling early for a home study course, plans can be made for prompt and steady progress immediately at the beginning of the summer vacation. The completion of one or two home study courses during the summer can be readily accomplished.

## GEOLOGY

**SS1. Physical Geology.** About one third of this course will be given over to a study of the common minerals and rocks which one is likely to see on cross-country tramps or to have brought into the school room for identification. The balance of the course will be spent in a systematic study of the work of wind, water, ice, and sub-surface forces, in modifying the surface of the earth. The course may best be summarized as a scientific study of the origin of scenery. Special emphasis will be placed in the laboratory on obtaining mastery of the topographic map. A laboratory fee of \$2.00 will be charged. This is payable to the Bursar.

*Four lecture-recitation periods at 8 and a Thursday afternoon laboratory period weekly.*

DR. LITTLE

## HISTORY

**\*SS211. History of Europe in the Nineteenth Century.** This is a general course designed to follow both chronologically and in subject matter a course on the history of Europe from 1500 to 1815. It is planned to meet the needs of those who desire a general knowledge of Europe and also those who wish, for purposes of teaching or graduate study, to keep abreast of the most recent research and interpretations of the period. While emphasis will be placed upon the period from 1815 to 1914, some attempt will be made to sketch briefly the developments during and since the World War. Much attention will be devoted to the political and diplomatic developments of the period and some consideration will be given to the great social and intellectual movements arising from the influence of the French and Industrial Revolutions such as liberalism, nationalism, socialism, and imperialism.

The course will be conducted so far as possible by the discussion method using a text and assigned readings as material. Those de-



siring graduate credit will be expected to do additional work either in the form of a report on some special topic or directed reading.

*Daily, except Saturday, at 9.*

DR. LEE

**\*SS22. European International Relations, 1870-1919.** A study of diplomatic history of Europe from the period of the formation of the German Empire to the present time. Bismarck's system of alliances, the developments in the history of the Eastern Question, the formation of the Franco-Russian alliance and the subsequent Triple Entente will be especially studied in the light of recent diplomatic revelations. Some study of the peace settlement and the conferences and agreements ending with the arrangements at Locarno will conclude the course.

*Daily, except Saturday, at 11.*

DR. LEE

**SS151. Introduction to American National Government.** This course is a general survey of the nature, structure and functions of our federal system of government. It deals with the relations of the citizen with the government, the relations of the states and the United States and the powers and activities of the executive, legislative, and judicial departments. Among the problems discussed are the suffrage, non-voting, naturalization, immigration, civil rights, equal rights, prohibition legislation, educational legislation, centralization, states rights, the primary, the electoral college, powers and activities of the president, the bicameral system, the caucus and committee system in Congress, lobbying, powers and procedure of Congress and judicial review. The course should be especially useful to teachers of United States history and civics and to college students or others who desire to strengthen their understanding of our national government or to provide themselves with a background for understanding our current political problems.

*Daily, except Saturday, at 8.*

PROFESSOR BYE

**SS16. The Teaching of History.** This is a practical course in methods of teaching history for teachers or prospective teachers and supervisors. Emphasis will be laid upon junior and senior high school work, but teachers in any grade will find the course helpful. The topics discussed include the pupil, the teacher, the objectives, the content, the teaching, and the testing. Practical problems, such as supervised study, the various types of recitation, socialized methods, projects, devices and aids, dramatization, the selection and use of books, drill and review, tests and current history teaching are studied through readings, reports, and discussions. The technique of history



teaching is viewed as direction of learning rather than the imparting of information. An extensive bibliography for immediate use and future reference is provided and the course is conducted in a classroom containing a very complete exhibit of materials used in the teaching of the social studies. The student has the opportunity of becoming familiar through actual contact with maps, textbooks, notebooks, syllabi, games, pictures, standardized tests, current events materials, publications for history teachers, and other aids for the teaching of history.

*Daily, except Saturday, at 10.*

PROFESSOR BYE

**SS11. Observational History of Massachusetts.** In this field course, particularly designed for teachers of American history and literature, a unique opportunity is given to learn through direct contacts the significance of the leading events of colonial and revolutionary history which occurred in this region. The class devotes the class period on Friday to lectures and discussions and all day Saturday of the first, second, third, and fourth weeks to work in the field, traveling by motor coach through the areas studied. With the required reading and field notes this course is designed to be the equivalent of a course meeting daily throughout the Summer School term. The cost of transportation for the four trips is \$12. Persons who do not wish credit may secure seats, when vacant, for single trips at \$3.50 per trip. The field studies are as follows:

**Field Study No. 1. Pilgrims and the South Shore.** Plymouth, Duxbury, Marshfield, Quincy, Dedham. A study of the Plymouth colony, with incidental visits to the Webster estate in Marshfield, the Adams homes in Quincy and the Fairbanks house in Dedham.

**Field Study No. 2. Puritans and the North Shore.** Danvers, Salem, Marblehead. A study of the beginnings of the Massachusetts Bay Colony, the witchcraft delusion, Hawthorne's Salem, the clipper ship era and the Revolution.

**Field Study No. 3. Puritan Pioneers in the Connecticut Valley.** Springfield, Deerfield. The main theme will be the expansion of New England and life on the first frontier. Among other objects of interest are the dinosaur tracks near Mt. Tom, and the New England Village at Springfield.

**Field Study No. 4. Beginnings of the Revolution.** Boston, Cambridge, Lexington, Concord. A further study will be made of the early history of the Massachusetts Bay Colony, but emphasis will

be placed upon the genesis of the American Revolution. Harvard University, the historic and literary homes and haunts of Cambridge and Concord and the Wayside Inn at South Sudbury will be included. *Friday at 2, and all day Saturday.* PROFESSOR BYE

Teachers and students of History will find interest in the following courses in Geography and Economics.

Geography \*SS24. South America. DR. JONES

Geography \*SS25. Social Geography. DR. HUNTINGTON

Geography \*SS285. Geography of Europe. DR. VAN CLEEF

Economics \*SS5. Economic History of Western Europe.

DR. BRANDENBURG

*For Field Trips see pages 25 to 28.*

## ECONOMICS

SS2. Problems of Economics. This course is complementary to Economics SS1 offered in the summer of 1931. The latter course stressed fundamental economic principles which underlie the production, valuation, and distribution of economic goods; the present course will take up specific economic problems such as wages, standards of living, ideals and practices of organized labor, transportation, banking and credit, taxation and other topics of historical and contemporary interest. The topics are selected not merely to illustrate economic principles, but also for the purpose of building up a better understanding of modern economic society. The course should be illuminating to teachers of economics, sociology, civics, history and current events, and to others with an intelligent interest in our economic and social life.

SS1 and SS2 may be taken separately; students wishing to take both parts may begin with either 1 or 2.

*Daily, except Saturday, at 10.*

DR. BRANDENBURG

\*SS5. Economic History of Western Europe. This course surveys the development of economic structure and activities from the Industrial Revolution to the present time; attention centers chiefly on Great Britain, Germany, and France. Changes in the methods and processes of the major industries are studied with as much detail as time permits; emphasis is placed on: (1) new or intensified economic and social problems emerging from these industrial changes, such as population increase and concentration, urbanization, food supply, raw materials, markets; (2) public and private policy and methods of organization designed to cope with these problems;

(3) the changed conditions and insistent problems, with the new policies and proposed solutions of the post war period; (4) the causes and consequences of the world economic depression following 1929.

An understanding of economic principles and a general knowledge of history of the regions studied are desirable as a background for the course. Graduate credit may be earned by properly qualified students.  
*Daily, except Saturday, at 11.* DR. BRANDENBURG

## ENGLISH

**SS2. Fundamentals of Public Speaking.** A course in the composition and delivery of speeches and practice in impromptu speaking. The student is taught to breathe correctly; exercises are given to overcome speech defects; relation of speaker to audience; posture, movement, gesture, pronunciation and enunciation, methods of preparing a speech, vocabulary building. The aim of the course is to train the student to think logically and to speak simply and effectively when on his feet.

*Daily, except Saturday, at 11.*

PROFESSOR ILLINGWORTH

**SS4. Modern Poetry.** This course aims to create an understanding of poetry for the purpose of reading as well as writing it. The student is encouraged to form independent critical opinion. Some emphasis will be placed upon oral interpretation. The reading will start with Whitman and give a rapid survey of English and American poetry to the present day.

*Daily, except Saturday, at 10.*

PROFESSOR ILLINGWORTH

**SS5. The Teaching of English in Junior and Senior High Schools.** The course will provide directions for establishing the curriculum for junior and senior high schools. Methods of teaching poetry, drama, novel, essay, short story, classics in translation, oral and written composition, will be presented.

*Daily, except Saturday, at 9.*

PROFESSOR ILLINGWORTH

**NOTE.** During the summer session, Professor Illingworth will give a series of Lecture-Recitals at 7:30 on Tuesday evenings. These are open to all who are interested. The series will include Contemporary and Classic Poetry, Drama, and Novel. The subject of each lecture will be announced. Meetings in the Union Room, first floor of Jonas G. Clark Hall.

## FRENCH AND GERMAN

While no provision is made for regular courses in French and German, students who wish to pursue either or both of these lan-



guages during the Summer Session may make arrangements to do so. A skilled instructor is available for lessons in French and German to individuals or groups at moderate cost. The lessons, if desired, will be given at the University. The work in these languages will be adapted to the individual needs of the students whether for elementary or advanced work, or for a reading knowledge of scientific works. Further information will be given on request.

## FIELD TRIPS FOLLOWING THE SUMMER SESSION

The field trips of 1932 are a continuation of a plan inaugurated by Clark University Summer School in 1924, for the study of geography and history out-of-doors. Field trips by motor coach have been conducted each summer during two or three weeks following the summer session. Two field trips are offered. A trip of three weeks starts at Clark University on Saturday, August 6. A trip of two weeks starts at Oswego, New York, on Saturday, August 13. Both trips return to the starting point on Friday, August 26. For those desiring academic credit, a written report, as outlined by the instructor, is required after the completion of each trip. This report is to be in the hands of the instructor on or before November 15, 1932.

Participation in a two-weeks or a three-weeks trip, including the preparation of a satisfactory report, is intended to represent the equivalent of a regular undergraduate course yielding two or three semester hours of credit respectively.

*Reservations should be made early. Tentative reservations will be made without payment, and definite enrollment will follow on payment of \$20 for the three-weeks trip and \$15 for the two-weeks trip. The balance should be paid on or before July 15. Make checks payable to Douglas C. Ridgley, Director, Clark University Summer School. Enrollment checks will not be deposited for collection until July 1, and checks for the balance will not be deposited until August 1.*

**Washington and Middle West Field Trip, Saturday August 6 to Friday, August 26, 21 days.** This trip is intended to introduce a great variety of geographic and historic regions in a minimum of time. The coast and its cities and industries will be contrasted with mountain settlements and the agriculture of the plains. Harbor activities in the largest ocean ports and the largest lake ports will be studied. The scenes of important historic events will be visited and the events interpreted in the light of their geographic settings.

Starting from the eastern margin of the Central Massachusetts

Upland at Worcester, the route leads through the rich Connecticut Valley to the road along the Sound and the lower end of the Hudson Valley. An evening and a morning in New York will provide time for a view of the metropolis before leaving for Philadelphia by way of the Holland Tunnel. The third day finds the party en route to the Capital of our country which is appropriately visited this year because of the Washington bi-centennial. One day will be spent in and around Washington.

Memories of Civil War stories come back as the route turns westward through Frederick, Gettysburg, and Chambersburg. A day in the mountains will furnish glimpses of scenery, resources and people quite different from those on other parts of the trip. The Ohio River as a factor in inland waterway development will be studied both at Pittsburgh and Cincinnati. The agricultural geography of the Ohio Valley and the Central Plains will be interpreted by actual observation.

Chicago will claim attention from the point of view of industrial development. The sand dune area of Lake Michigan, the cereal plants at Battle Creek, and the great automobile factories in Detroit are visited on the eastward part of the trip. A visit to foreign lands is provided by the trail across Canada from Detroit to Niagara Falls and Buffalo. From the latter city the way lies through the historic and industrial Mohawk Valley, to the Hudson Valley and over the Berkshires to the starting point. This trip is filled with the geography and history of our country which every teacher needs and which stimulates interest in the classroom.

The completion of this trip with assigned readings and written report (see page 25) is intended to represent the equivalent of a regular undergraduate course yielding three semester hours of credit.

The cost of the trip is \$20 for tuition and \$90 for transportation, both payable to Clark University. Expenses for room and meals will be paid by each member individually, but all hotel reservations will be made for the party in advance. The total necessary cost of the trip should not exceed \$200. The trip will be in charge of Professor George F. Howe, Head of the Geography Department, State Normal School, New Britain, Connecticut. Professor Howe has conducted three field trips for Clark University Summer School in previous years.

*For reservations and method of payment, see the introductory paragraph under "Field Trips Following the Summer School," page 25. Further inquiries concerning the trip may be made of the instructor or of the Clark University Summer School.*



Send to Clark University Summer School or to the instructor for printed circular with day by day itinerary.

**Appalachian Highlands Field Trip**, Saturday, August 13, to Friday, August 26, 14 days. The enthusiastic interest of the members of the 1929, 1930, and 1931 field trips conducted by Clark University for New York State teachers assures interest in the announcement of another trip for 1932.

From the standpoint of regional geography, this field trip by motor coach presents for actual observation the Ontario Lake Plain, Finger Lakes Region, Allegany Plateau, Blue Ridge, Cumberland and Great Smoky Mountains, Piedmont, Fall Line, and Atlantic Coastal Plain. The Delaware Water Gap, Natural Bridge, and famous caverns of Virginia are features of the trip. In the field of economic geography, this study includes the Shenandoah apple region, anthracite and bituminous coal mining, lumbering, turpentine forests, the cotton belt, fisheries and canneries of the Eastern Shore, selected industries of the larger cities, and special studies of the harbors of Philadelphia and Baltimore.

Historically, the area selected offers unusual opportunities to visit scenes of Colonial, Revolutionary, and Civil War interest. The itinerary suggests many of the places of historic value.

Leaving Oswego, the route leads through Auburn, Ithaca, Harrisburg, Gettysburg, Frederick, Harper's Ferry, Winchester, Endless Caverns, Staunton, Charlottesville, Monticello, Natural Bridge; then to Charleston and Huntington, West Virginia; thence southward across eastern Kentucky to Knoxville, Tennessee. The route then leads eastward across North Carolina through Asheville, Winston-Salem, Durham, and Raleigh to Newport News, Virginia. Hampton Institute, Fortress Monroe, Old Point Comfort, Yorktown, Williamsburg, Jamestown, and Richmond, fill a red-letter day for the history lover, followed by Fredericksburg, Mt. Vernon, Alexandria, Arlington, Washington and Annapolis. Baltimore and Chesapeake Bay, Elkton, Maryland's Eastern Shore, and adjacent Delaware introduce us to the region recently named Delmarva. The balance of the journey lies through Wilmington, Philadelphia, Valley Forge, Easton, Scranton, and Binghamton, to Oswego.

This study of the Appalachian Highlands with brief visits for contrast to the Atlantic Coastal Plain is planned primarily to meet the needs of New York State teachers and students of geography and history. It offers, however, an equally striking opportunity to teachers in Pennsylvania, New Jersey, and other states, and is open to all who

wish to enroll. The completion of this trip with assigned readings and written report (see page 25) is intended to represent the equivalent of a regular undergraduate course yielding two semester hours of credit.

The cost of the trip is \$15 for tuition and \$70 for transportation, both payable to Clark University. Expenses for room and meals will be paid by each member individually, but all hotel reservations will be made for the party in advance. The total necessary cost of the trip should not exceed \$150. The trip will be in charge of Mrs. Isabelle K. Hart, Instructor in Geography, State Normal School, Oswego, New York. Mrs. Hart has conducted three field trips for Clark University Summer School in previous years.

*For reservations and method of payment, see the introductory paragraph under "Field Trips Following the Summer School," page 25. Further inquiries concerning the trip may be made of the instructor or of the Clark University Summer School.*

Send to Clark University Summer School or to the instructor for printed circular with day by day itinerary.

## PRELIMINARY ANNOUNCEMENT OF FIELD TRIP TO HAWAII, 1933

Dr. Langdon White, who conducted the 1930 and 1931 Clark University Transcontinental Field Trips, will conduct a seven weeks' field trip to Hawaii in the summer of 1933. Leaving Worcester the latter part of June or early in July, the party will travel by train to Los Angeles, visiting Yellowstone National Park and other points of interest for field study. A week will be spent in field work in the Hawaiian Islands. On returning to California, the party will travel northward on land to Seattle; then by boat to Vancouver and Prince Rupert, and by train across Canada to Jasper National Park, Winnipeg, and Montreal, returning to Worcester. Write for further information to Clark University Summer School, Worcester, Massachusetts.

## CREDIT FOR FIELD TRIPS

The field trip of two weeks' duration, together with assigned readings and a satisfactory report (see page 25), is designed to cover the equivalent of two semester hours of credit; similarly the trip of three weeks' duration, three semester hours of credit. These trips are so credited when applied toward a bachelor's degree in Clark University.

The work for credit involves the preparation of the field notes under the direction of the instructor, such preliminary reading and

study as may be outlined by the instructor, and the submission of a satisfactory report on or before November 15. A certificate, with a statement of the course and grade received, will be furnished soon after the instructor's report is filed with the Registrar.

The field trips are a part of the regular Summer School program, but do not count as a part of the minimum residence credit of thirty semester hours for the Bachelor of Education degree.

PUBLICATIONS FOR GEOGRAPHY TEACHERS AND  
HISTORY TEACHERS

Clark University has published three pamphlets of special value to teachers of geography. These are: (1) A bibliography of the pedagogy of geography; (2) A bibliography of reference reading in geography; (3) a monograph on place geography. They are here briefly described.

1. Frederick K. Branom: *A Bibliography of Recent Literature on the Teaching of Geography*. Sixth Revised Edition, 1930. Price 25 cents. More than 600 references to books and magazine articles are classified under 22 topical headings. You can select readings of immediate value in your teaching problems if you have this bibliography.

Please do not write above this line.

To the Registrar of Clark University:

I wish to be enrolled as a student in the Summer School for 1932, and enclose with this the Registration fee of two dollars.

Name .....

Address .....

Date .....

Occupation during the past academic year .....

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Graduate of what college, normal school, or other educational institution, with date of graduation?

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2. Ella B. Knight: *A Bibliography of Geographical Literature for Elementary Grades and Junior High School*. Second Revised Edition, 1928. Price 25 cents. More than 500 choice books are listed with annotations. You can select supplementary reading in geography with assurance if you have this bibliography.

3. Douglas C. Ridgley: *A Study of Children's Learning about Places*. Price 80 cents. A monograph of 142 pages with 30 graphs. A discussion of place geography with practical suggestions for the study of places in the regular geography work. A classified list of 1,200 important places enables teacher and pupils to center attention on the places worthy of special study.

*These three publications will be sent to any address, postpaid, for \$1.00, in a single order.*

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TENTATIVE LIST OF SUMMER SCHOOL COURSES WHICH APPLICANT DESIRES TO  
ENTER

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(Describe by Subject and Number, i.e., Geography 101)

Have you been accepted as a candidate for a degree? .....

At what institution? ..... What degree? .....

Have you ever attended the Clark University Summer School? .....

If so, what was year of last attendance? .....

4. Edgar C. Bye: *A Bibliography on the Teaching of the Social Studies*. First edition, 1929. Price 25 cents. More than 800 references to books and magazine articles are carefully classified for ready use of teachers and students of history and civics.

*These four publications will be sent to any address, postpaid, for \$1.20, in a single order.* These bibliographies are of special value to all teachers of geography and history and to classes studying method courses in geography and history in normal schools and teachers colleges.

Address: Clark University, Home Study Department  
Worcester, Massachusetts

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Order Blank for Home Study Lessons and Other Items

CLARK UNIVERSITY,  
HOME STUDY DEPARTMENT,  
WORCESTER, MASSACHUSETTS.

Please send the explanatory statement and sample lessons of the Home Study Course entitled:

*Title of Course* .....

*Name* .....

*Address* .....

*Position* .....



## A MAGAZINE FOR GEOGRAPHY TEACHERS

*Economic Geography* is a quarterly journal published by Clark University. Its articles cover many phases of industry and commerce. It is a most valuable reference for classes in geography in any school, but it is especially adapted to the needs of high school, normal school, college, and university.

Subscription rates are \$5.00 per year. For further information, address:

*Economic Geography*, Clark University  
Worcester, Massachusetts

You may also send the other items checked on this form:

- ☐ Home Study Bulletin No charge.
- ☐ Summer School Bulletin 1932. No charge.
- ☐ Annual Catalogue of Clark University. No charge.
- ☐ Statement of the requirements for the degree Bachelor of Education at Clark University. No charge.
- ☐ Further information about the Quarterly journal *Economic Geography*. No charge.
- ☐ Information about membership in the National Council of Geography Teachers and the *Journal of Geography*. No charge
- ☐ Enclosed find 25c for Branom's Bibliography.
- ☐ Enclosed find 25c for Knight's Bibliography.
- ☐ Enclosed find 80c for Ridgley's Monograph on Place Geography.
- ☐ Enclosed find \$1.00 for the three foregoing publications.
- ☐ Enclosed find 25c for Bye's Bibliography.
- ☐ Enclosed find \$1.20 for the four publications.









